

CONFORM REGULAMENTELOR CE 1907/2006 (REACH),

Pagina:1 - 75

1272/2008 (CLP) ŞI 2015/830

Data tipăririi: 6.10.2020

Versiunea nr.: 8

Revizia: 6.10.2020

# SECȚIUNEA 1:IDENTIFICAREA SUBSTANȚEI/AMESTECULUI ȘI A SOCIETĂȚII/ÎNTREPRINDERII

#### 1.1 Element de identificare a produsului Denumirea produsului Melamină Denumirea chimică 1,3,5-triazină-2,4,6-triamină Formula chimică C<sub>3</sub>H<sub>6</sub>N<sub>6</sub> Nr. CAS 108-78-1 Nr. CE 203-615-4 Nr. înregistrare REACH 01-2119485947-16-0017 1.2 Utilizări relevante identificate ale substanței sau ale amestecului și utilizări contraindicate Utilizări identificate Melamina (C3H6N6) este un produs sub formă de pulbere albă utilizat pentru producția unei game largi de rășini sintetice. Formulare sau reambalare • • Utilizare ca intermediar pentru rășini (melamină reacționată) Utilizare ca aditiv în spume • Utilizare ca aditiv în acoperiri intumescente • Spume PU – Lucrători (industrială) Acoperiri intumescente - Lucrători (industrială)

Utilizări contraindicate

• Acoperiri intumescente – Lucrători profesioniști Adăugare la produse alimentare sau furaje.

Offizari contraincicate

# 1 3 Detalii privind furnizorul fisei cu date de securitate

1.5 Detaili privind furnizorul fișel cu	date de securitate
Identificarea societății	Qatar Melamine Co
Adresa	P.O. Box 50001, Mesaieed,
	Qatar.
Telefon	(+974) 44228888
E-mail	mktg@qafco.com.qa
Reprezentantul unic al unui producător d	lin afara Comunității
Identificarea societății	MUNTAJAT B.V.
Adresa	Prinses Margrietplantsoen 78-A
	2595 BR, Haga
	Țările de Jos
Telefon	+31(0)70 219 7000
E-mail	REACH@muntajatbv.com
Site web	www.muntajatbv.com

# 1.4 Număr de telefon care poate fi apelat în caz de urgență

1.4 Numai ut telefon care poate n'ape	liat in caz uc urgența
Serviciul Național de Informare	+44 (0) 111
Toxicologică (centrul din Birmingham)	
Pentru scurgeri, incendiu, expunere sau	În SUA și Canada: 1-800-424-9300
accident, apelați CHEMTREC atât pe	În afara SUA și Canada: +1 703-741-5970 și +1-703-527-3887 (sunt acceptate
timp de zi, cât și pe timp de noapte	convorbirile cu taxă inversă)

# SECTIUNEA 2:IDENTIFICAREA PERICOLELOR

**2.1 Clasificarea substanței sau a amestecului** Clasificare conform Regulamentului Repr. 2:Su:

Repr. 2:Susceptibilă de a dăuna fertilității.

2.2 Elemente pentru etichetă

(CE) nr. 1272/2008 (CLP)

Denumirea produsului

Pictograma de pericol

Conform Regulamentului (CE) nr. 1272/2008 (CLP) Melamină.



Cuvânt de avertizare

Atenție



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Frază de pericol	H361f: Susceptibilă de a dăuna fertilității.	
Fraze de precauție	<ul> <li>P201: Procurați instrucțiuni speciale înainte de utili</li> <li>P202: A nu se manipula decât după ce au fost citite securitate.</li> <li>P280: Purtați mănuși de protecție/îmbrăcăminte de protecție a ochilor/echipament de protecție a feței.</li> <li>P308+P313: ÎN CAZ DE expunere sau de posibilă e P405: A se depozita sub cheie.</li> <li>P501: Aruncați conținutul în conformitate cu legisla</li> </ul>	și înțelese toate măsurile de protecție/echipament de expunere:consultați medicul.
2.3 Alte pericole	Poate fi nociv în caz de înghițire. Pulberea poate avea efecte iritante asupra pielii, ocl	hilor și a căilor respiratorii.

#### 2.4 Informații suplimentare

Nu există.

# SECȚIUNEA 3:COMPOZIȚIE/INFORMAȚII PRIVIND COMPONENȚII

## 3.1 Substanțe

5.1 Substanțe					
COMPONENȚI	Nr. CAS	Nr. CE	%	Frază de pericol	Pictograma de
PERICULOS			70		pericol
Melamină	108-78-1	203-615-4	$\geq$ 99	Repr. 2 H361f	GHS08
		01-2119485947-16-0017			

# 3.2 Amestecuri

Nu este cazul.

# SECȚIUNEA 4:MĂSURI DE PRIM AJUTOR 4.1 Descrierea măsurilor de prim ajutor Inhalare Dacă respirația este dificilă, transportați victima la aer liber și mențineți-o în stare de repaus într-o poziție confortabilă pentru respirație.Dacă simptomele persistă, consultați medicul. Contact cu pielea După contactul cu pielea, spălați imediat cu multă apă și săpun. Contact cu ochii Spălați mai întâi cu multă apă timp de câteva minute (scoateți lentilele de contact dacă acest lucru se poate face cu ușurință), apoi consultați medicul. Ingerare În caz de înghițire, se clătește gura cu apă (numai dacă persoana este conștientă).

#### 4.2 Cele mai importante simptome și efecte, atât acute, cât și întârziate

Pulberea poate avea efecte iritante asupra pielii, ochilor și a căilor respiratorii.

#### 4.3 Indicații privind orice fel de asistență medicală imediată și tratamentele speciale necesare

În caz de expunere sau de posibilă expunere: Consultați medicul.

# SECȚIUNEA 5:MĂSURI DE COMBATERE A INCENDIILOR

# 5.1 Mijloace de stingere a incendiilor Mijloace de stingere corespunzătoare Mijloace de stingere necorespunzătoare 5.2 Pericole speciale cauzate de substanța sau de amestecul în cauză În caz de incendiu se descompune producând vapori toxici:monoxid de carbon, dioxid de carbon, oxizi de azot. Când melamina este încălzită la peste 500 °C eliberează amoniac. 5.3 Recomandări destinate pompierilor

Pompierii trebuie să poarte îmbrăcăminte de protecție completă, inclusiv aparat de respirat autonom.

# SECȚIUNEA 6:MĂSURI DE LUAT ÎN CAZ DE DISPERSIE ACCIDENTALĂ

#### 6.1 Precauții personale, echipament de protecție și proceduri de urgență

Asigurați ventilația corespunzătoare. Asigurați echipamentul de protecție personală adecvat (inclusiv echipament de protecție respiratorie) în timpul îndepărtării scurgerilor. Evitați generarea de praf. Evitați să inspirați praful.



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 6.2
 Precauții pentru mediul înconjurător Nu permiteți pătrunderea în canale colectoare, canalizare sau cursuri de apă.

 6.3
 Metode și material pentru izolarea incendiilor și pentru curățenie Măturați substanțele vărsate și depozitați-le în recipiente. Dacă este cazul, umeziți-le înainte pentru a preveni formarea prafului.Colectați cu grijă resturile. Nu spălați scurgerile cu apă întrucât zona va deveni alunecoasă și va bloca canalizarea.

 6.4
 Trimitere la alte secțiuni

 A se vedea și secțiunile 8, 13.

 SECȚIUNEA 7:MANIPULAREA ȘI DEPOZITAREA

#### 7.1 Precauții pentru manipularea în condiții de securitate

Procurați instrucțiuni speciale înainte de utilizare. A nu se manipula decât după ce au fost citite și înțelese toate măsurile de securitate. Asigurați ventilația corespunzătoare. Evitați generarea de praf. Evitați să inspirați praful. Purtați mănuși de protecție/îmbrăcăminte de protecție/echipament de protecție a ochilor/echipament de protecție a feței. Spălați-vă bine mâinile și pielea expusă după utilizare.

#### 7.2 Condiții de depozitare în condiții de securitate, inclusiv eventuale incompatibilități

	A se proteja de lumina solară. A se depozita sub cheie. A se depozita într-un loc uscat. Păstrați recipientul închis etanș.
Temperatură de depozitare	Ambiantă.
Termen de valabilitate	Stabilă în condiții normale.
Materiale incompatibile	Puternic acide. Agenți oxidanți puternici.
-	

#### 7.3 Utilizare (utilizări) finală (finale) specifică (specifice)

- Formulare sau reambalare
- Utilizare ca intermediar pentru rășini (melamină reacționată)
- Utilizare ca aditiv în spume
- Utilizare ca aditiv în acoperiri intumescente
- Spume PU Lucrători (industrială)
- Acoperiri intumescente Lucrători (industrială)
- Acoperiri intumescente Lucrători profesioniști

# SECȚIUNEA 8:CONTROALE ALE EXPUNERII/PROTECȚIA PERSONALĂ

# 8.1 Parametri de control

8.1.1 Valori-limită de expunere

prof	esioi	nal	la
proi		incer	

SUBSTANȚĂ		· · ·	LETL (8 ore MPT mg/m <sup>3</sup> )	LETS (ppm)	LETS (mg/m <sup>3</sup> )	Notă
Melamină	108-78-1					Nu sunt alocate

Sursa: UK Workplace Exposure Limits (Limite de expunere la locul de muncă în Regatul Unit) EH40/2005 (ediția a patra, publicată în 2020), Regatul Unit

8.1.2 Valori-limită biologice Nu sunt stabilite.

#### 8.1.3 PNEC și DNEL

DNEL / DMEL	Orală	Inhalare	Cutanată
Industrie – termen lung – efecte locale			
Industrie – termen lung – efecte sistemice			11,8 mg/kg greutate corporală/zi
Industrie – termen scurt – efecte locale			
Industrie – termen scurt – efecte sistemice		82,3 mg/m <sup>3</sup>	117 mg/kg greutate corporală/zi
Consumator – termen lung – efecte locale			
Consumator – termen lung – efecte sistemice	0,42 mg/kg greutate corporală/zi		4,2 mg/kg greutate corporală/zi



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Consumator – termen scurt – efecte locale		
Consumator – termen scurt – efecte sistemice		

Mediu			PNEC
Compartimentul acvatic (inclusiv sedimentar)		ientar)	Apă dulce: 0,51 mg/l
			Degajare intermitentă: 2 mg/l
			Apă de mare: 0,051 mg/l
			Apă dulce (sediment): 2,524 mg/kg greutate uscată
			Apă de mare (sediment): 0,252 mg/kg greutate uscată
Compartimen			Stație de epurare a apelor uzate: 200 mg/l
Compartimen	tul atmosferic		Sol: 0,206 mg/kg greutate uscată
	e ale expunerii		
8.2.1. Contro		Asigurați ver	ntilația corespunzătoare.
corespunzătoa			
8.2.2. Echipa	ment de protecție persona		
	Protecția ochilor	Purtați echip protecție faci	ament de protecție pentru ochi (ochelari de protecție sau ecran de ială).
	Protecția pielii		și de protecție. enetrare a materialului mănușilor: consultați informațiile furnizate de mănușilor.
	Protecție respiratorie		ată o mască de protecție împotriva prafului aprobată dacă se af în timpul utilizării.
	Pericole termice	Nu este cazu	1.

8.2.3. 8.2 Controlul expunerii mediului Nu permiteți pătrunderea în canale colectoare, canalizare sau cursuri de apă.

# SECȚIUNEA 9:PROPRIETĂȚI FIZICE ȘI CHIMICE

9.1 Informații privind proprietățile fizice și chimice de bază				
Aspect	Pulbere.			
	Culoare: Albă.			
Miros	Inodoră.			
Pragul de acceptare a mirosului	Nu este stabilit.			
pH	7,5-8,5 (soluție apoasă), 20 g/l la 20°C			
Punctul de topire/punctul de înghețare	354°C (Nu îngheață, se solidifică)			
Punctul inițial de fierbere și intervalul d	e >354°C (Sublimare)			
fierbere				
Punctul de inflamabilitate	Nu este cazul.			
Viteza de evaporare	Nu este cazul.			
Inflamabilitate (solid, gaz)	Neinflamabil.			
Limitele superioare/inferioare de	Nu este cazul.			
inflamabilitate sau de explozie				
Presiunea de vapori	4,7 x 10 <sup>-8</sup> Pa la 20°C			
Densitatea vaporilor	Nu este cazul.			
Densitate (g/ml)	1570 kg/m <sup>3</sup>			
Densitatea relativă	1,57			
Solubilitatea (solubilitățile)	Solubilitatea (apă): Solubilitate redusă: 3,48 g/l la 20°C			
	Solubilitatea (alți solvenți): Solubilitate foarte redusă: Acetonă (0,3 g/l), etanol			
	(0,6 g/l), dimetilformamidă (0,1 g/l), Solubilă: Celosolv (11,2 g/l) la 30°C			
Coeficientul de partiție: n-octanol/apă	-1,22 la 20°C			
Temperatura de autoaprindere	>500°C			
Temperatura de descompunere (°C)	>354°C			
Vâscozitatea	Nu este cazul.			
Proprietăți explozive	Nu este explozivă.			
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Proprietăți oxidante	Nu este oxidantă.
<b>9.2 Alte informații</b> Constanta de disociere Greutatea moleculară	6,7 pKa la 20°C 126,12 g/mol
SECȚIUNEA 10:STABILITATE ȘI F	REACTIVITATE
10.1 Reactivitate	Stabilă în condiții normale.
10.2 Stabilitate chimică	Stabilă în condiții normale.
10.3 Posibilitatea de reacții periculoa	<b>se</b> Nu se cunosc reacții periculoase dacă se utilizează în scopul pentru care a fost produsă.
10.4 Condiții de evitat	A se proteja de umiditate.
10.5 Materiale incompatibile	Puternic acide. Agenți oxidanți puternici.
10.6 Produși de descompunere pericu	Nu se cunosc produși de descompunere periculoși.

SECȚIUNEA 11:INFORMAȚII TOXICOLOGICE					
11.1 Informații privind efectele toxicologice					
Toxicitatea acută – ingerare Poate fi nociv în caz de înghițire.					
-	LD50(şobolan): 3161 mg/kg				
Toxicitatea acută – contact cu pielea	Toxicitate acută scăzută.				
Toxicitatea acută – inhalare	Toxicitate acută scăzută.				
	LC50(şobolan): >5190 mg/m <sup>3</sup>				
Corodarea/iritarea pielii	Nu este clasificată.				
Lezarea gravă/iritarea ochilor	Nu este clasificată.				
Date privind sensibilizare pielii	Nu este sensibilizant pentru piele.				
Date privind sensibilizare căilor	Nu este clasificată.				
respiratorii					
Mutagenitatea celulelor germinative	Nu există dovezi privind potențialul mutagen.				
Cancerigenitatea	Nu poate fi clasificată din punctul de vedere al cancerigenității sale pentru om.				
	LOAEL (oral): 126 mg/kg greutate corporală/zi (cronică, șobolan, vezică urinară).				
	Au fost observate creșteri semnificative din punct de vedere statistic ale incidenței				
	carcinoamelor celulare tranzitorii și ale incidențelor combinate ale carcinoamelor și				
	papiloamelor celulare tranzitorii la nivelul vezicii urinare la masculii de șobolan				
	expuși la 4500 ppm melamină (cca. 263 mg/greutate corporală/zi), dar nu și atunci				
	când au fost expuși la 2250 ppm melamină. Cu o singură excepție, au fost observați				
	calculi la nivelul vezicii urinare la masculii de șobolan care au avut carcinoame				
	celulare tranzitorii. Femele de șobolan nu au dezvoltat tumori nici chiar atunci când				
	au fost expuse la 9000 ppm. Nu au fost observate semne ale prezenței neoplasmelor asociate tratamentului la masculii sau femelele de șoarece. Nu există dovezi la om.				
Toxigitates portru reproducero	Susceptibilă de a dăuna fertilității la masculii de șobolan.				
Toxicitatea pentru reproducere	NOAEL (oral): 89 mg/kg greutate corporală/zi (subacută, 168 ore/săptămână				
	sobolan).				
	Au fost detectate efecte adverse asupra sistemului de reproducere masculin în				
	cadrul unui EOGRTS realizat în conformitate cu orientarea 443 a OCDE pe				
	sobolani, ca urmare a deciziei ECHA numărul TPE-D-2114373433-50-01. A fost				
	observată degenerarea/atrofia tubulară testiculară împreună cu fragmente celulare				
	minime asociate în epididim la masculii F0 și F1. În plus, a fost observată o				
	creștere a anomaliilor spermatozoizilor (capete detașate) la masculii F0 și F1.				
Alăptare	Nu este previzibil.				
STOT – expunere unică	Nu este clasificată.				
STOT – expunere repetată	Nu este clasificată.				
Pericolul prin aspirare	Nu este previzibil.				
• •	-				



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# SECȚIUNEA 14:INFORMAȚII REFERITOARE LA TRANSPORT

Nu este clasificată ca fiind periculoasă pentru transport.

14.1 Numărul ONU

Nu este cazul

- 14.2 Denumirea corectă ONU pentru expediție Nu este cazul
- 14.3 Clasa (clasele) de pericol pentru transport Nu este cazul
- 14.4 Grupul de ambalare Nu este cazul
- 14.5 Pericole pentru mediul înconjurător

Nu este clasificată ca fiind poluant marin.

14.6 Precauții speciale pentru utilizatori

Nu se cunosc

14.7 Transportul în vrac, în conformitate cu anexa II la Convenția MARPOL și cu Codul IBC Nu se cunosc



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# SECȚIUNEA 15:INFORMAȚII DE REGLEMENTARE

# 15.1 Regulamente/legislație în domeniul securității, al sănătății și al mediului specifice (specifică) pentru substanța sau amestecul în cauză

sau amestecui m cauza
Regulamente europene – autorizații și/sau restricții privind utilizarea
Lista substanțelor care prezintă motive Nu este inclusă.
de îngrijorare deosebită candidate pentru
autorizare
REACH: ANEXA XIV Lista Nu este inclusă.
substanțelor care fac obiectul autorizării
REACH: Anexa XVII Restricțiile Nu este inclusă.
privind producerea, introducerea pe piață
și utilizarea anumitor substanțe,
amestecuri și articole periculoase
Planul de acțiune flexibil comunitar Nu este inclusă.
(CoRAP)
Regulamentul (CE) nr. 850/2004 al Nu este inclusă.
Parlamentului European și al Consiliului
privind poluanții organici persistenți
Regulamentul (CE) nr. 1005/2009 Nu este inclusă.
privind substanțele care diminuează
stratul de ozon
Regulamentul (CE) nr. 649/2012 al Nu este inclusă.
Parlamentului European și al Consiliului
privind exportul și importul de produse
chimice care prezintă risc
Degulamente nationale

# Regulamente naționale

Situația stocurilor

Menționată în:Australia, Canada (DSL), China, Japonia, Coreea, Taiwan, Noua Zeelandă (HSNO) – aprobare HSNO: HSR002503, Noua Zeelandă (NZIoC), Filipine.

#### 15.2 Evaluarea securității chimice

A fost realizată o evaluare a securității chimice în conformitate cu REACH.

SECȚIUNEA 16:ALTE INFORMAȚII				
Următoarele secțiuni conțin fraze revi	zuite sau noi:	1-16		
LEGENDĂ				
Pictograma de pericol	GHS08			
Clasificarea pericolului	Repr. 2: Toxicitate pentru reprodu	acere, categoria 2		
Frază de pericol	H361f: Susceptibilă de a dăuna fe	ertilității.		
Fraze de precauție	securitate. P280: Purtați mănuși de protecție. protecție a ochilor/echipament de P308+P313: În caz de expunere s P405: A se depozita sub cheie.	pă ce au fost citite și înțelese toate măsurile de /îmbrăcăminte de protecție/echipament de		
Acronime		e (Serviciul de catalogare a produselor chimice) 2/2008 privind clasificarea, etichetarea și ecurilor		



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	DNEL: Nivel calculat fără efect (Derived No Effe CE: Comunitatea Europeană LETL: Limită de expunere pe termen lung PBT: Persistent, bioacumulativ și toxic PNEC: Concentrație predictibilă fără efect (Predi- REACH: Înregistrarea, evaluarea, autorizarea și r chimice LETS: Limită de expunere pe termen scurt STOT: Toxicitate asupra unui organ țintă specific	cted No Effect Concentration) restricționarea substanțelor
	toxicity) vPvB: foarte persistent și foarte bioacumulativ	(or or appende unger organ
Declinarea responsabilității	Informațiile conținute în prezenta publicație sau considerate a fi exacte și sunt oferite cu bună c utilizatorului să se asigure că produsul este adecv Qatar Melamine Co nu oferă nicio garanție cu pentru un scop specific și exclude orice garanție legală sau de orice altă natură), cu excepția împiedicată prin lege. Qatar Melamine Co nu își asumă nicio respu prejudiciul (altul decât cel apărut în urma de produsul defect, dacă este dovedită), rezultat din drepturile asupra brevetelor, drepturilor de au	predință, dar este responsabilitatea at pentru propriul său scop. u privire la adecvarea produsului e sau condiție implicită (de natură cazului în care excluderea este onsabilitate pentru pierderea sau ecesului sau a rănirii cauzate de utilizarea acestor informații. Toate

rezervate.



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SECTION 1: Title of exposure scenario				
		Formulation or re-packaging		
Contrib	outing scenario controllin	ng environmental exposure	1	
CS1 Formulation or re-packaging ERC2				
Contrib	outing scenario controllin	ng worker exposure	-	
CS2		refinery in closed continuous process with occasional processes with equivalent containment conditions	PROC2	
CS3		tion in the chemical industry in closed batch processes with posure or processes with equivalent containment conditions	PROC3	
CS4	Chemical production wh	here opportunity for exposure arises	PROC4	
CS5	Mixing or blending in b	atch processes	PROC5	
CS6	Transfer of substance or facilities	mixture (charging and discharging) at non-dedicated	PROC8a	
CS7	Transfer of substance or	mixture (charging and discharging) at dedicated facilities	PROC8b	
CS8	Transfer of substance or including weighing)	mixture into small containers (dedicated filling line,	PROC9	
CS9	Tabletting, compression	, extrusion, pelletisation, granulation	PROC14	
CS10	Use as laboratory reagen	nt	PROC15	
CS11	Hand-mixing with intim	ate contact and only PPE available	PROC19	
CS12	Manual maintenance (cl	eaning and repair) of machinery	PROC28	
SECTI	ON 2:	Conditions of use		
2.1		<b>Contributing scenario controlling environmental exposur</b> 1.1 Formulation or re-packaging (ERC 2)	e:	
Amoun	t used, frequency and du	iration of use (or from service life)		
		vant for the assessment as scenario specific releases are estimat evant for the assessment as scenario specific releases are estim		
Conditio	ons and measures related t	o biological sewage treatment plant		
Dischar	cal STP: Standard [Effecti ge rate of STP: >= 2E3 m tion of the STP sludge on	3/day		
Other g	given operational conditi	ons affecting environmental exposure		
Receivin	ng surface water flow: >=	1.8E4 m3/day		
2.2		<b>Contributing scenario controlling worker exposure:</b> 1.2 Chemical production or refinery in closed continuous pro controlled exposure or processes with equivalent containmen		
Produc	t characteristics			
Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form)				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measures to control dispersion from source towards the worker				
General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]				
Conditions and measures related to personal protection, hygiene and health evaluation				
Respiratory protection: No [Effectiveness, Inhalation: 0%] Dermal protection: No [Effectiveness, Dermal: 0%]				



Other given operational conditions affecting workers exposure						
Place of use: Indoor Operating temperature: <= 40 °C						
2.3 Contributing scenario controlling worker exposure: 1.3 Manufacture or formulation in the chemical industry in closed batch processes occasional controlled exposure or processes with equivalent containment condition (PROC 3)						
Product characteristics						
Percentage (w/w) of substance in Physical form of the used product						
Frequency and duration of use						
Duration of activity: <= 8 h/day						
Technical conditions and measu	res to control dispersion from source towards the worker					
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Aanagement System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]					
Conditions and measures relate	d to personal protection, hygiene and health evaluation					
Respiratory protection: No [Effec Dermal protection: No [Effective						
Other given operational conditi	ons affecting workers exposure					
Place of use: Indoor Operating temperature: <= 40 °C						
2.4	Contributing scenario controlling worker exposure: 1.4 Chemical production where opportunity for exposure arises (PROC 4)					
Product characteristics						
Percentage (w/w) of substance in Physical form of the used product						
Frequency and duration of use						
Duration of activity: <= 8 h/day						
Technical conditions and measu	res to control dispersion from source towards the worker					
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Aanagement System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]					
Conditions and measures relate	d to personal protection, hygiene and health evaluation					
Respiratory protection: No [Effec Dermal protection: No [Effective						
Other given operational conditions affecting workers exposure						
Place of use: Indoor Operating temperature: <= 40 °C						
2.5 Contributing scenario controlling worker exposure: 1.5 Mixing or blending in batch processes (PROC 5)						
Product characteristics						
Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form)						
Frequency and duration of use						
Duration of activity: <= 8 h/day						
Technical conditions and measures to control dispersion from source towards the worker						
General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced						



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Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]				
Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%]				
Dermal protection: No [Effectiveness, finalation: 0%] Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection [Effectiveness, Dermal: 80%]				
Other given operational conditi	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.6	<b>Contributing scenario controlling worker exposure:</b> 1.6 Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC 8a)			
Product characteristics				
Percentage (w/w) of substance in Physical form of the used product				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measu	ires to control dispersion from source towards the worker			
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Aanagement System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]			
Conditions and measures relate	d to personal protection, hygiene and health evaluation			
Respiratory protection: No [Effectiveness, Inhalation: 0%] Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection [Effectiveness, Dermal: 80%]				
Other given operational condition	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.7	<b>Contributing scenario controlling worker exposure:</b> 1.7 Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC 8b)			
Product characteristics				
Percentage (w/w) of substance in Physical form of the used product				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measu	ires to control dispersion from source towards the worker			
General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]				
Conditions and measures relate	d to personal protection, hygiene and health evaluation			
Respiratory protection: No [Effectiveness, Inhalation: 0%] Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection [Effectiveness, Dermal: 80%]				
Other given operational conditions affecting workers exposure				
Place of use: Indoor Operating temperature: <= 40 °C				
2.8       Contributing scenario controlling worker exposure:         1.8 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9)				
Product characteristics				



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Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form)			
Frequency and duration of use			
Duration of activity: <= 8 h/day			
Technical conditions and measu	res to control dispersion from source towards the worker		
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]		
Conditions and measures relate	d to personal protection, hygiene and health evaluation		
Respiratory protection: No [Effect Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection		
Other given operational conditi	ons affecting workers exposure		
Place of use: Indoor Operating temperature: <= 40 °C			
2.9	<b>Contributing scenario controlling worker exposure:</b> 1.9 Tabletting, compression, extrusion, pelletisation, granulation (PROC 14)		
Product characteristics			
Percentage (w/w) of substance in Physical form of the used product			
Frequency and duration of use			
Duration of activity: <= 8 h/day			
Technical conditions and measu	res to control dispersion from source towards the worker		
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]		
Conditions and measures relate	d to personal protection, hygiene and health evaluation		
Respiratory protection: No [Effect Dermal protection: No [Effective			
Place of use: Indoor Operating temperature: <= 40 °C			
2.10       Contributing scenario controlling worker exposure:         1.10 Use as laboratory reagent (PROC 15)			
Product characteristics			
Percentage (w/w) of substance in Physical form of the used product			
Frequency and duration of use			
Duration of activity: <= 8 h/day			
Technical conditions and measu	res to control dispersion from source towards the worker		
General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]			
Conditions and measures related to personal protection, hygiene and health evaluation			
Respiratory protection: No [Effectiveness, Inhalation: 0%] Dermal protection: No [Effectiveness, Dermal: 0%]			
Contributing scenario controlling worker exposure:           1.11 Hand-mixing with intimate contact and only PPE available (PROC 19)			
Product characteristics			
Percentage (w/w) of substance in mixture/article: <= 100 %			



Physical form of the used product	Physical form of the used product: Solid (medium dusty form)				
Frequency and duration of use					
Duration of activity: <= 8 h/day					
Technical conditions and measu	res to control dis	persion from source toward	ls the work	er	
General ventilation: Basic general Occupational Health and Safety M Local exhaust ventilation: No [Eff	ventilation (1-3 ai Ianagement System	r changes per hour) [Effectiv n: Advanced			
Conditions and measures related	d to personal prot	ection, hygiene and health	evaluation		
Respiratory protection: No [Effect Dermal protection: Yes(Chemical) appropriate dermal protection [Eff	ly resistant gloves	conforming to EN374 with s	pecific acti	vity training) and (other)	
Other given operational condition	ons affecting work	kers exposure			
Place of use: Indoor Operating temperature: <= 40 °C					
2.12		nario controlling worker enternance (cleaning and repair		nery (PROC 28)	
Product characteristics					
Percentage (w/w) of substance in a Physical form of the used product:					
Frequency and duration of use					
Duration of activity: <= 8 h/day					
Technical conditions and measu	res to control disp	persion from source toward	ls the work	er	
General ventilation: Basic general Occupational Health and Safety M Local exhaust ventilation: No [Eff	Ianagement Systen	n: Advanced	eness, Inha	llation: 0%]	
Conditions and measures related	d to personal prot	ection, hygiene and health	evaluation		
Respiratory protection: No [Effect Dermal protection: Yes(Chemicall [Effectiveness, Dermal: 80%]	tiveness, Inhalatior ly resistant gloves	n: 0%] conforming to EN374) and (	other) appr	opriate dermal protection	
Other given operational condition	ons affecting work	cers exposure			
Place of use: Indoor Operating temperature: <= 40 °C					
SECTION 3:	1.13 Exposure	e estimation			
3.1. Environment					
Release	Release esti	mation method	Explanations		
Water	Estimated re	Estimated release rate		Local release rate: 5 kg/day	
Air	Estimated re	elease rate	Local rele	ease rate: 1 kg/day	
Non-Agricultural Soil	Estimated re	elease factor	Release fa	actor after on-site RMM: 0%	
Protection target	Exposure concentration		Risk quantification (RCR)		
Fresh water	Local PEC: 0.255 mg/l		0.5		
Sedimentation (Fresh water) Local PEC:			w	0.5	
Marine waterLocal PEC: 0.0255 mg/l0.5					
Sedimentation (Marine water)Local PEC: 0.126 mg/kg dw0.5					
Sewage Treatment PlantLocal PEC: 2.496 mg/l0.01					
Agricultural soil					
Man via Environment - Inhalation (Systemic effects)Concentration in air: 7.8E-5 mg/m³< 0.01					



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Man via Environment - Oral	Exposure via food consumption: 0.017 mg/kgbw/day	0.04
Man via Environment - Combined routes		0.04
3.2. Worker		
Contributing scenario controlling worker expose occasional controlled exposure or processes with ex-		
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.5 mg/m <sup>3</sup>	0.06
Inhalation, Systemic effects, Acute	2 mg/m <sup>3</sup>	0.024
Dermal, Systemic effects, Long Term	1.37 mg/kgbw/day	0.116
Combined routes, Systemic effects, Long Term		0.176
Contributing scenario controlling worker exposed batch processes with occasional controlled exposure		
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m <sup>3</sup>	0.12
Inhalation, Systemic effects, Acute	4 mg/m <sup>3</sup>	0.049
Dermal, Systemic effects, Long Term	0.69 mg/kgbw/day	0.058
Combined routes, Systemic effects, Long Term		0.179
Contributing scenario controlling worker expos 4)	ure:Chemical production where opport	tunity for exposure arises (PROC
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kgbw/day	0.116
Combined routes, Systemic effects, Long Term		0.719
Contributing scenario controlling worker expos	ure:Mixing or blending in batch proces	sses (PROC 5)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
<b>Contributing scenario controlling worker expos</b> non-dedicated facilities (PROC 8a)	ure: Transfer of substance or mixture (	charging and discharging) at
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
<b>Contributing scenario controlling worker expos</b> dedicated facilities (PROC 8b)	ure:Transfer of substance or mixture (o	charging and discharging) at non
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m <sup>3</sup>	0.12
Inhalation, Systemic effects, Acute	4 mg/m <sup>3</sup>	0.049
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.353



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Melamină

Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kgbw/day	0.116
Combined routes, Systemic effects, Long Term		0.719
<b>Contributing scenario controlling worker expos</b> (PROC 14)	sure:Tabletting, compression, extrusio	on, pelletisation, granulation
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m <sup>3</sup>	0.12
Inhalation, Systemic effects, Acute	4 mg/m <sup>3</sup>	0.049
Dermal, Systemic effects, Long Term	3.43 mg/kgbw/day	0.291
Combined routes, Systemic effects, Long Term		0.411
Contributing scenario controlling worker expos	sure:Use as laboratory reagent (PROC	C 15)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.5 mg/m <sup>3</sup>	0.06
Inhalation, Systemic effects, Acute	2 mg/m <sup>3</sup>	0.024
Dermal, Systemic effects, Long Term	0.34 mg/kgbw/day	0.029
Combined routes, Systemic effects, Long Term		0.089
<b>Contributing scenario controlling worker expos</b> 19)	ure:Hand-mixing with intimate contac	ct and only PPE available (PROC
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	3 mg/m <sup>3</sup>	0.361
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	7.072 mg/kgbw/day	0.599
Combined routes, Systemic effects, Long Term		0.961
Contributing scenario controlling worker expos	ure:Manual maintenance (cleaning an	d repair) of machinery (PROC 28)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
SECTION 4: 1.14 Guidance to DU to ev	aluate whether he works inside the	

ECETOC TRA Workers 3.1:

Explanation: The exposure estimates for PROC 8a are used, as TRA Workers cannot predict exposure for PROC 28 and these estimates can be considered suitable for estimating exposures during manual maintenance.



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Melamină

# 2. Exposure Scenario 2: Use at industrial sites - Use as intermediate for resins (reacted melamine)

SECTI	ON 1:	Title of exposure scenario					
		Use at industrial sites - Use as intermediate for resins (rea	acted melamine)				
Contril	buting scenario controlli	ng environmental exposure					
CS1	Use as intermediate for	resins (reacted melamine)	ERC6a, ERC6c				
Contril	buting scenario controlling	ng worker exposure					
CS2	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions						
CS3		refinery in closed continuous process with occasional processes with equivalent containment conditions	PROC2				
CS4		tion in the chemical industry in closed batch processes with posure or processes with equivalent containment conditions	PROC3				
CS5	Chemical production wh	here opportunity for exposure arises	PROC4				
CS6	Mixing or blending in b	atch processes	PROC5				
CS7	Calendering operations		PROC6				
CS8	Transfer of substance or facilities	mixture (charging and discharging) at non-dedicated	PROC8a				
CS9	Transfer of substance or	mixture (charging and discharging) at dedicated facilities	PROC8b				
CS10	Transfer of substance or including weighing)	mixture into small containers (dedicated filling line,	PROC9				
CS11	Tabletting, compression, extrusion, pelletisation, granulation         PROC14						
CS12	Use as laboratory reagent PROC15						
CS13	3 Manual maintenance (cleaning and repair) of machinery PROC						
SECTI	ON 2:	Conditions of use					
2.1		<b>Contributing scenario controlling environmental exposur</b> 2.1 Use as intermediate for resins (reacted melamine) (ERC 6					
Amour	nt used, frequency and du	iration of use (or from service life)					
		vant for the assessment as scenario specific releases are estimat evant for the assessment as scenario specific releases are estim					
Conditi	ons and measures related t	o biological sewage treatment plant					
Dischar	cal STP: Standard [Effecti rge rate of STP: >= 2E3 m ation of the STP sludge on	3/day					
Other g	given operational conditi	ons affecting environmental exposure					
Receivi	ng surface water flow: >=	1.8E4 m3/day					
2.2		<b>Contributing scenario controlling worker exposure:</b> 2.2 Chemical production or refinery in closed process withou processes with equivalent containment conditions (PROC 1)	t likelihood of exposure or				
Produc	et characteristics						
		mixture/article: <= 100 % :: Solid (medium dusty form)					
Freque	ency and duration of use						
Duratio	on of activity: <= 8 h/day						
Techni	cal conditions and measu	res to control dispersion from source towards the worker					
Occupa	tional Health and Safety N	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]	on: 0%]				
Condit	ions and measures relate	d to personal protection, hygiene and health evaluation					



QATAR MELAMINE CO.					
Respiratory protection: No [Effect Dermal protection: No [Effective					
Other given operational conditional	ons affecting workers exposure				
Place of use: Indoor Operating temperature: <= 40 °C					
2.3	<b>Contributing scenario controlling worker exposure:</b> 2.3 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC 2)				
Product characteristics					
Percentage (w/w) of substance in Physical form of the used product					
Frequency and duration of use					
Duration of activity: <= 8 h/day					
Technical conditions and measu	res to control dispersion from source towards the worker				
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]				
Conditions and measures relate	d to personal protection, hygiene and health evaluation				
Respiratory protection: No [Effect Dermal protection: No [Effective					
Other given operational conditi	ons affecting workers exposure				
Place of use: Indoor Operating temperature: <= 40 °C					
2.4 Contributing scenario controlling worker exposure: 2.4 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions (PROC 3)					
Product characteristics					
Percentage (w/w) of substance in Physical form of the used product					
Frequency and duration of use					
Duration of activity: <= 8 h/day					
Technical conditions and measu	ires to control dispersion from source towards the worker				
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]				
Conditions and measures relate	d to personal protection, hygiene and health evaluation				
Respiratory protection: No [Effect Dermal protection: No [Effective					
Other given operational conditional	ons affecting workers exposure				
Place of use: Indoor Operating temperature: <= 40 °C					
2.5	<b>Contributing scenario controlling worker exposure:</b> 2.5 Chemical production where opportunity for exposure arises (PROC 4)				
Product characteristics					
Percentage (w/w) of substance in Physical form of the used product					
Frequency and duration of use					
Duration of activity: <= 8 h/day					



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Technical conditions and measu	ires to control dispersion from source towards the worker
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effec	
Other given operational conditi	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.6	<b>Contributing scenario controlling worker exposure:</b> 2.6 Mixing or blending in batch processes (PROC 5)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	res to control dispersion from source towards the worker
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effec Dermal protection: Yes(Chemica [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational conditi	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.7	Contributing scenario controlling worker exposure: 2.7 Calendering operations (PROC 6)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	ires to control dispersion from source towards the worker
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effec Dermal protection: Yes (Chemica appropriate dermal protection [Eff	Ily resistant gloves conforming to EN374 with basic employee training) and (other)
Other given operational conditional	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.8	<b>Contributing scenario controlling worker exposure:</b> 2.8 Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC 8a)



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Product characteristics				
Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form)				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measu	res to control dispersion from source towards the worker			
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]			
Conditions and measures relate	d to personal protection, hygiene and health evaluation			
Respiratory protection: No [Effect Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection			
Other given operational conditi	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.9	<b>Contributing scenario controlling worker exposure:</b> 2.9 Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC 8b)			
Product characteristics				
Percentage (w/w) of substance in Physical form of the used product				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measu	res to control dispersion from source towards the worker			
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]			
Conditions and measures relate	d to personal protection, hygiene and health evaluation			
Respiratory protection: No [Effec Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection			
Other given operational conditi	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.10	<b>Contributing scenario controlling worker exposure:</b> 2.10 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9)			
Product characteristics				
Percentage (w/w) of substance in Physical form of the used product				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measu	res to control dispersion from source towards the worker			
General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]				
Conditions and measures relate	d to personal protection, hygiene and health evaluation			
Respiratory protection: No [Effect Dermal protection: Yes(Chemical	tiveness, Inhalation: 0%] ly resistant gloves conforming to EN374) and (other) appropriate dermal protection			



[Effectiveness, Dermal: 80%]				
	ons affecting workers exposure			
Place of use: Indoor				
Operating temperature: <= 40 °C				
2.11	<b>Contributing scenario controlling worker exposure:</b> 2.11 Tabletting, compression, extrusion, pelletisation, granulation (PROC 14)			
Product characteristics				
Percentage (w/w) of substance in Physical form of the used produc				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measure	ares to control dispersion from source towards the worker			
Occupational Health and Safety I	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]			
Conditions and measures relate	ed to personal protection, hygiene and health evaluation			
Respiratory protection: No [Effect Dermal protection: No [Effective				
Other given operational condit	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.12	Contributing scenario controlling worker exposure: 2.12 Use as laboratory reagent (PROC 15)			
Product characteristics				
Percentage (w/w) of substance in Physical form of the used produc				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measured	ires to control dispersion from source towards the worker			
Occupational Health and Safety I	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]			
Conditions and measures relate	ed to personal protection, hygiene and health evaluation			
Respiratory protection: No [Effective Dermal protection: No [Effective				
Other given operational condit	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.13	Contributing scenario controlling worker exposure: 2.13 Manual maintenance (cleaning and repair) of machinery (PROC 28)			
Product characteristics				
Percentage (w/w) of substance in Physical form of the used produc				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
	res to control dispersion from source towards the worker			
General ventilation: Basic general Occupational Health and Safety I	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]			



Conditions and measures related Respiratory protection: No [Effect Dermal protection: Yes(Chemical	iveness, Inhalation	:: 0%]		
[Effectiveness, Dermal: 80%]				
Other given operational condition	ons affecting work	ers exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
SECTION 3:	2.14 Exposure	e estimation		
3.1. Environment				
Release	Release estin	mation method	Explanat	ions
Water	Estimated re	lease rate	Local rele	ease rate: 3 kg/day
Air	Estimated re	lease rate	Local rele	ease rate: 0.5 kg/day
Non-Agricultural Soil	Estimated re	lease factor	Release fa	actor after on-site RMM: 0%
Protection target		Exposure concentration		Risk quantification (RCR)
Fresh water		Local PEC: 0.155 mg/l		0.3
Sedimentation (Fresh water)		Local PEC: 1.26 mg/kg d	W	0.3
Marine water		Local PEC: 0.0255 mg/l		0.3
Sedimentation (Marine water)		Local PEC: 0.126 mg/kg	dw	0.3
Sewage Treatment Plant		Local PEC: 2.496 mg/l		< 0.01
Agricultural soil		Local PEC: 0.029 mg/kg	dw	0.08
Man via Environment - Inhalation (Systemic effects)		Concentration in air: 7.8E-5 mg/m <sup>3</sup>		< 0.01
Man via Environment - Oral		Exposure via food consumption: 0.017 mg/kgbw/day		0.04
Man via Environment - Combined	routes			0.02
3.2. Worker				
<b>Contributing scenario controllin</b> likelihood of exposure or processe				losed process without
Exposure route		Exposure estimate -Wor	ker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term		0.01 mg/m <sup>3</sup>		< 0.01
Inhalation, Systemic effects, Acut	e	0.04 mg/m <sup>3</sup>		< 0.01
Dermal, Systemic effects, Long T	erm	0.034 mg/kgbw/day		< 0.01
Combined routes, Systemic effect	s, Long Term			< 0.01
Contributing scenario controllin occasional controlled exposure or				
Exposure route		Exposure estimate -Wor	ker	Risk quantification (RCR)
Inhalation, Systemic effects, Long	g Term	0.5 mg/m <sup>3</sup>		0.06
Inhalation, Systemic effects, Acut	e	2 mg/m <sup>3</sup>		0.024
Dermal, Systemic effects, Long T	erm	1.37 mg/kgbw/day		0.116
Combined routes, Systemic effect	s, Long Term			0.176
<b>Contributing scenario controllin</b> batch processes with occasional co				
Exposure route		Exposure estimate -Wor	ker	Risk quantification (RCR)
Inhalation, Systemic effects, Long	g Term	1 mg/m <sup>3</sup>		0.12
Inhalation, Systemic effects, Acut	e	4 mg/m <sup>3</sup>		0.049
Dermal, Systemic effects, Long Term		0.69 mg/kgbw/day 0.058		0.058



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Combined routes, Systemic effects, Long Term		0.179
Contributing scenario controlling worker expos	sure:Chemical production where oppo	ortunity for exposure arises (PROC
4)		1
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kgbw/day	0.116
Combined routes, Systemic effects, Long Term		0.719
Contributing scenario controlling worker expos	sure:Mixing or blending in batch proc	esses (PROC 5)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
Contributing scenario controlling worker expos	sure: Calendering operations (PROC e	5)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.743 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
<b>Contributing scenario controlling worker expos</b> non-dedicated facilities (PROC 8a)	sure: Transfer of substance or mixture	e (charging and discharging) at
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
<b>Contributing scenario controlling worker expos</b> dedicated facilities (PROC 8b)	sure:Transfer of substance or mixture	(charging and discharging) at non-
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m <sup>3</sup>	0.12
Inhalation, Systemic effects, Acute	4 mg/m <sup>3</sup>	0.049
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.353
<b>Contributing scenario controlling worker expos</b> filling line, including weighing) (PROC 9)	sure:Transfer of substance or mixture	into small containers (dedicated
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kgbw/day	0.116
		0.719
Combined routes, Systemic effects, Long Term		0./19
· ·	sure:Tabletting, compression, extrusio	
Combined routes, Systemic effects, Long Term Contributing scenario controlling worker expos	sure:Tabletting, compression, extrusio	



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Melamină

Inhalation, Systemic effects, Acute		4 mg/m <sup>3</sup>	0.049
Dermal, Systemic effects, Long Ter	m	3.43 mg/kgbw/day	0.291
Combined routes, Systemic effects,	Long Term		0.411
Contributing scenario controlling	worker exposu	re:Use as laboratory reagent (PROC 1	5)
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	Term	0.5 mg/m <sup>3</sup>	0.06
Inhalation, Systemic effects, Acute		2 mg/m <sup>3</sup>	0.024
Dermal, Systemic effects, Long Term		0.34 mg/kgbw/day	0.029
Combined routes, Systemic effects, Long Term			0.089
Contributing scenario controlling	worker exposu	re:Manual maintenance (cleaning and	repair) of machinery (PROC 28)
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute		20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Ter	m	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term			0.835
SECTION 4:	2.15 Guidance the ES	to DU to evaluate whether he work	s inside the boundaries set by
Remarks on exposure data from exter ECETOC TRA Workers 3.1:			

Explanation: The exposure estimates for PROC 8a are used, as TRA Workers cannot predict exposure for PROC 28 and these estimates can be considered suitable for estimating exposures during manual maintenance.



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Melamină

# 3. Exposure Scenario 3: Use at industrial sites - Use of resins with unreacted residual melamine

3. SECTI		Use at industrial sites - Use of resins with unreacted residu Title of exposure scenario	
		Use at industrial sites - Use of resins with unreacted resid	dual melamine
Contri	buting scenario controlli	ng environmental exposure	
CS1	Use of resins with unrea		ERC5
Contri	buting scenario controllin	ng worker exposure	-1
CS2	Industrial spraying	~ •	PROC7
CS3	Transfer of substance or facilities	mixture (charging and discharging) at non-dedicated	PROC8a
CS4	Transfer of substance or	mixture (charging and discharging) at dedicated facilities	PROC8b
CS5	Roller application or bru	ishing	PROC10
CS6	Hand-mixing with intim	ate contact and only PPE available	PROC19
CS7	Manual maintenance (cl	eaning and repair) of machinery	PROC28
SECTI	ION 2:	Conditions of use	
2.1		<b>Contributing scenario controlling environmental exposu</b> 3.1 Use of resins with unreacted residual melamine (ERC 5)	
Amour	nt used, frequency and du	uration of use (or from service life)	
		vant for the assessment as scenario specific releases are estimated and for the assessment as scenario specific releases are estimated as a scenario specific release as a scenario specific releases are estimated as a scenario specific release are estimated as a scenario specific release a	
Conditi	ions and measures related t	to biological sewage treatment plant	
Dischar	ical STP: Standard [Effecti rge rate of STP: >= 2E3 m ation of the STP sludge on	3/day	
Other a	given operational conditi	ons affecting environmental exposure	
Receivi	ing surface water flow: >=	1.8E4 m3/day	
2.2		<b>Contributing scenario controlling worker exposure:</b> 3.2 Industrial spraying (PROC 7)	
Produc	ct characteristics		
	tage (w/w) of substance in al form of the used product		
Freque	ency and duration of use		
Duratic	on of activity: <= 8 h/day		
Techni	ical conditions and measu	ires to control dispersion from source towards the worker	
Occupa	ational Health and Safety N	al ventilation (mechanical) Janagement System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]	
Condit	tions and measures relate	d to personal protection, hygiene and health evaluation	
	atory protection: No [Effec l protection: Yes(Chemical iveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropr	iate dermal protection
	Iveness, Dermai. 80%]		
[Effecti		ons affecting workers exposure	
[Effecti Other a Place o		ons affecting workers exposure	
[Effecti Other a Place o Operati	<b>given operational conditi</b> of use: Indoor	<b>Contributing scenario controlling worker exposure:</b> 3.3 Transfer of substance or mixture (charging and dischargi facilities (PROC 8a)	ing) at non-dedicated
[Effecti Other ; Place o Operati 2.3	<b>given operational conditi</b> of use: Indoor	Contributing scenario controlling worker exposure: 3.3 Transfer of substance or mixture (charging and discharging	ing) at non-dedicated



Phy	eical	form	of	the	need	product:	Lion	hid
PIIY	sical	TOLIU	OI.	une	usea	product:	LIQU	пa

Frequency and duration of use

Duration of activity: <= 8 h/day

# Technical conditions and measures to control dispersion from source towards the worker

General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced

Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]

# Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection: No [Effectiveness, Inhalation: 0%] Dermal protection: No [Effectiveness, Dermal: 0%]

## Other given operational conditions affecting workers exposure

Place of use: Indoor

Operating temperature: <= 40 °C

2	•	4

**Contributing scenario controlling worker exposure:** 3.4 Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC 8b)

#### **Product characteristics**

Percentage (w/w) of substance in mixture/article: <= 5 % Physical form of the used product: Liquid

#### Frequency and duration of use

Duration of activity: <= 8 h/day

#### Technical conditions and measures to control dispersion from source towards the worker

General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced

Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]

#### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection: No [Effectiveness, Inhalation: 0%] Dermal protection: No [Effectiveness, Dermal: 0%]

#### Other given operational conditions affecting workers exposure

Place of use: Indoor

Operating temperature: <= 40 °C

		_	
2		Ξ	
4	•	9	

# **Contributing scenario controlling worker exposure:** 3.5 Roller application or brushing (PROC 10)

#### **Product characteristics**

Percentage (w/w) of substance in mixture/article: <= 5 % Physical form of the used product: Liquid

Frequency and duration of use

# Duration of activity: <= 8 h/day

# Technical conditions and measures to control dispersion from source towards the worker

Ventilation working room: General ventilation (mechanical)

Occupational Health and Safety Management System: Advanced

Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]

# Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection: No [Effectiveness, Inhalation: 0%] Dermal protection: No [Effectiveness, Dermal: 0%]

#### Other given operational conditions affecting workers exposure

# Place of use: Indoor

2.6

Operating temperature:  $\leq 40 \degree C$ 

Contributing scenario controlling worker exposure:



3.	6 Hand-mixing v	with intimate contact and on	ly PPE avai	ilable (PROC 19)
Product characteristics				
Percentage (w/w) of substance in mix Physical form of the used product: Li		5 %		
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measures	to control disp	ersion from source toward	ls the work	er
Ventilation working room: General v Occupational Health and Safety Man Local exhaust ventilation: No [Effect	agement System	: Advanced		
Conditions and measures related to	o personal prote	ection, hygiene and health	evaluation	
Respiratory protection: No [Effective Dermal protection: Yes(Chemically r [Effectiveness, Dermal: 80%]	ness, Inhalation esistant gloves c	: 0%] conforming to EN374) and (	other) appro	opriate dermal protection
Other given operational conditions	affecting work	ers exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
		nario controlling worker ex enance (cleaning and repair)		ery (PROC 28)
Product characteristics				
Percentage (w/w) of substance in mix Physical form of the used product: Li		5 %		
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measures	to control disp	ersion from source toward	ls the work	er
General ventilation: Basic general ve Occupational Health and Safety Man Local exhaust ventilation: No [Effect	agement System	: Advanced	veness, Inha	lation: 0%]
Conditions and measures related to	personal prote	ection, hygiene and health	evaluation	
Respiratory protection: No [Effective Dermal protection: No [Effectiveness		: 0%]		
Other given operational conditions	affecting work	ers exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
SECTION 3:	3.8 Exposure	estimation		
3.1. Environment				
Release	Release estin	nation method	Explanat	ions
Water	Estimated rel	ease rate	Local rele	ease rate: 0.5 kg/day
Air	Estimated rel	ease rate	Local rele	ease rate: 0 kg/day
Non-Agricultural Soil	Estimated rel			actor after on-site RMM: 0%
Protection target				Risk quantification (RCR)
Fresh water		Local PEC: 0.03 mg/l		0.06
Sedimentation (Fresh water)	nentation (Fresh water)		dw	0.06
Iarine water		Local PEC: 3E-3 mg/l		0.06
Sedimentation (Marine water)			Local PEC: 3E-3 mg/l         0.06           Local PEC: 0.015 mg/kg dw         0.06	
Sewage Treatment Plant		Local PEC: 0.015 mg/kg dw         0.06           Local PEC: 0.25 mg/l         < 0.01		
Sewage freatment frant				



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Man via Environment - Inhalation (Systemic effects)	Concentration in air: 9.8E-16 mg/m <sup>3</sup>	< 0.01
Man via Environment - Oral	Exposure via food consumption: 1.09E-3 mg/kgbw/day	< 0.01
Man via Environment - Combined routes		< 0.01
3.2. Worker		
Contributing scenario controlling worker exposu	e: Industrial spraying (PROC 7)	
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	2.43 mg/m <sup>3</sup>	0.293
Inhalation, Systemic effects, Acute	2.43 mg/m <sup>3</sup>	0.03
Dermal, Systemic effects, Long Term	1.714 mg/kgbw/day	0.145
Combined routes, Systemic effects, Long Term		0.438
Contributing scenario controlling worker exposu non-dedicated facilities (PROC 8a)	re: Transfer of substance or mixture (c	charging and discharging) at
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.105 mg/m <sup>3</sup>	0.013
Inhalation, Systemic effects, Acute	0.105 mg/m <sup>3</sup>	< 0.01
Dermal, Systemic effects, Long Term	2.74 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.245
<b>Contributing scenario controlling worker exposu</b> dedicated facilities (PROC 8b)	re:Transfer of substance or mixture (cl	harging and discharging) at non-
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.105 mg/m <sup>3</sup>	0.013
Inhalation, Systemic effects, Acute	0.105 mg/m <sup>3</sup>	< 0.01
Dermal, Systemic effects, Long Term	2.74 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.245
Contributing scenario controlling worker exposu	re:Roller application or brushing (PRO	DC 10)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1.1 mg/m <sup>3</sup>	0.133
Inhalation, Systemic effects, Acute	1.1 mg/m <sup>3</sup>	0.013
Dermal, Systemic effects, Long Term	5.486 mg/kgbw/day	0.465
Combined routes, Systemic effects, Long Term		0.597
Contributing scenario controlling worker exposu 19)	re:Hand-mixing with intimate contact	and only PPE available (PROC
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inholation Systemifft- I - T		
Inhalation, Systemic effects, Long Term	0.53 mg/m <sup>3</sup>	0.064
Inhalation, Systemic effects, Long Term Inhalation, Systemic effects, Acute	0.53 mg/m <sup>3</sup> 0.53 mg/m <sup>3</sup>	0.064 < 0.01
	-	
Inhalation, Systemic effects, Acute	0.53 mg/m <sup>3</sup>	< 0.01
Inhalation, Systemic effects, Acute Dermal, Systemic effects, Long Term	0.53 mg/m <sup>3</sup> 5.657 mg/kgbw/day	< 0.01 0.479 0.543
Inhalation, Systemic effects, Acute Dermal, Systemic effects, Long Term Combined routes, Systemic effects, Long Term	0.53 mg/m <sup>3</sup> 5.657 mg/kgbw/day	< 0.01 0.479 0.543
Inhalation, Systemic effects, Acute Dermal, Systemic effects, Long Term Combined routes, Systemic effects, Long Term <b>Contributing scenario controlling worker exposur</b>	0.53 mg/m <sup>3</sup> 5.657 mg/kgbw/day e:Manual maintenance (cleaning and p	< 0.01 0.479 0.543 repair) of machinery (PROC 28)
Inhalation, Systemic effects, Acute Dermal, Systemic effects, Long Term Combined routes, Systemic effects, Long Term <b>Contributing scenario controlling worker exposur</b> <b>Exposure route</b>	0.53 mg/m <sup>3</sup> 5.657 mg/kgbw/day •e:Manual maintenance (cleaning and b Exposure estimate -Worker	< 0.01 0.479 0.543 repair) of machinery (PROC 28) <b>Risk quantification (RCR)</b>
Inhalation, Systemic effects, Acute Dermal, Systemic effects, Long Term Combined routes, Systemic effects, Long Term <b>Contributing scenario controlling worker exposur</b> <b>Exposure route</b> Inhalation, Systemic effects, Long Term	0.53 mg/m <sup>3</sup> 5.657 mg/kgbw/day e:Manual maintenance (cleaning and a Exposure estimate -Worker 0.105 mg/m <sup>3</sup>	< 0.01 0.479 0.543 repair) of machinery (PROC 28) <b>Risk quantification (RCR)</b> 0.013



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SECTION 4:	<b>3.9</b> Guidance to DU to evaluate whether he works inside the boundaries set by the ES
- Activity/type of task: Handling of	ncentration estimated using Stoffenmanager® (version 8) liquids at high pressure resulting in substantial generation of mist or spray/haze one of the worker (distance head-product < 1 m) (worst-case assumption) es at the source l ventilation (mechanical) -1000 m3 ly): Yes ce (at least monthly): Yes urces (worst-case assumptions);
A period of evaporation, drying or c The concentration that can be inhale performed for 8 hours, the daily aver Guidance (Chapter R.14), this estimation inhalation exposure estimate (90th p	uring after the activity (with prolonged emission of vapours): Yes d by the worker during the task due to the activity undertaken is obtained. As the task is rage concentration equals the task concentration. In accordance with the ECHA ated concentration is therefore considered to be the short-term as well as the long-term
	the for CSA, while liquid is used, it is considered appropriate to refine the exposure ton of TRA Workers (v3.1). The vapour pressure at operating temperature (40°C) used calculated by Chesar).
<ul> <li>Activity/type of task: Handling of I</li> <li>Distance to task: In the breathing z</li> <li>Local controls: No control measure</li> <li>Ventilation working room: Genera</li> <li>Volume of the working room: 100-</li> <li>Regular cleaning of work area (dai</li> <li>Regular inspection and maintenance</li> <li>Presence of secondary emission so</li> <li>Other workers using the same substation A period of evaporation, drying or c</li> <li>The concentration that can be inhale performed for 8 hours, the daily average</li> </ul>	l ventilation (mechanical) -1000 m3 ly): Yes ze (at least monthly): Yes urces (worst-case assumptions); ance simultaneously: Yes uring after the activity (with prolonged emission of vapours): Yes d by the worker during the task due to the activity undertaken is obtained. As the task is rage concentration equals the task concentration.In accordance with the ECHA ated concentration is therefore considered to be the short-term as well as the long-term
<ul> <li>Activity/type of task: Handling of J</li> <li>Distance to task: In the breathing z</li> <li>Local controls: No control measure</li> <li>Ventilation working room: Genera</li> <li>Volume of the working room: 100-</li> <li>Regular cleaning of work area (dai</li> <li>Regular inspection and maintenance</li> <li>Presence of secondary emission so</li> <li>Other workers using the same substation A period of evaporation, drying or c</li> <li>The concentration that can be inhale</li> <li>performed for 8 hours, the daily average</li> </ul>	l ventilation (mechanical) -1000 m3 ly): Yes ze (at least monthly): Yes urces (worst-case assumptions); ance simultaneously: Yes uring after the activity (with prolonged emission of vapours): Yes d by the worker during the task due to the activity undertaken is obtained.As the task is rage concentration equals the task concentration.In accordance with the ECHA ated concentration is therefore considered to be the short-term as well as the long-term
these estimates can be considered su	s for PROC 8a are used, as TRA Workers cannot predict exposure for PROC 28 and itable for estimating exposures during manual maintenance. The exposure estimates are e standalone version of TRA Workers (v3.1). The vapour pressure at operating



temperature (40°C) used for the calculation is 3.71E-8 Pa (as calculated by Chesar).



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Melamină

4. Exposure Scenario 4: Use at industrial sites - Use as intermediate for the production of other substances e.g. melamine salt (reacted melamine)

	melamine salt (reacted	i melamine)	
SECTI	ON 1:	Title of exposure scenario	
		Use at industrial sites - Use as intermediate for the produce.g. melamine salt (reacted melamine)	tion of other substances
Contril	buting scenario controlli	ng environmental exposure	
CS1	Use as intermediate for melamine)	the production of other substances e.g. melamine salt (reacted	ERC6a
Contri	buting scenario controlli	ng worker exposure	
CS2		refinery in closed process without likelihood of exposure or nt containment conditions	PROC1
CS3		refinery in closed continuous process with occasional processes with equivalent containment conditions	PROC2
CS4		tion in the chemical industry in closed batch processes with sposure or processes with equivalent containment conditions	PROC3
CS5	Chemical production w	here opportunity for exposure arises	PROC4
CS6	Mixing or blending in b	atch processes	PROC5
CS7	Transfer of substance or facilities	mixture (charging and discharging) at non-dedicated	PROC8a
CS8	Transfer of substance or	mixture (charging and discharging) at dedicated facilities	PROC8b
CS9	Transfer of substance or including weighing)	mixture into small containers (dedicated filling line,	PROC9
CS10	Use as laboratory reagen	nt	PROC15
CS11	Manual maintenance (cl	eaning and repair) of machinery	PROC28
SECTI	ON 2:	Conditions of use	
2.1		<b>Contributing scenario controlling environmental exposure</b> 4.1 Use as intermediate for the production of other substances (reacted melamine) (ERC 6a)	
Amoun	nt used, frequency and du	uration of use (or from service life)	
		vant for the assessment as scenario specific releases are estimate evant for the assessment as scenario specific releases are estimated	
Conditi	ons and measures related	to biological sewage treatment plant	
Dischar	cal STP: Standard [Effecti rge rate of STP: >= 2E3 m ation of the STP sludge on	3/day	
Other g	given operational conditi	ons affecting environmental exposure	
-	ing surface water flow: >=		
2.2		<b>Contributing scenario controlling worker exposure:</b> 4.2 Chemical production or refinery in closed process without processes with equivalent containment conditions (PROC 1)	likelihood of exposure or
Produc	ct characteristics		
		mixture/article: <= 100 % t: Solid (medium dusty form)	
Freque	ency and duration of use		
Duratio	on of activity: <= 8 h/day		
Techni	cal conditions and measu	ires to control dispersion from source towards the worker	
Occupa	tional Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalatic Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]	on: 0%]



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d to personal protection, hygiene and health evaluation
tiveness, Inhalation: 0%] ness, Dermal: 0%]
ons affecting workers exposure
<b>Contributing scenario controlling worker exposure:</b> 4.3 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC 2)
mixture/article: <= 100 % t: Solid (medium dusty form)
ires to control dispersion from source towards the worker
l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
d to personal protection, hygiene and health evaluation
tiveness, Inhalation: 0%] ness, Dermal: 0%]
ons affecting workers exposure
<b>Contributing scenario controlling worker exposure:</b> 4.4 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions (PROC 3)
(I KOC 5)
(1 KOC 5)
mixture/article: <= 100 % t: Solid (medium dusty form)
mixture/article: <= 100 %
mixture/article: <= 100 %
mixture/article: <= 100 %
mixture/article: <= 100 % I: Solid (medium dusty form)
mixture/article: <= 100 % t: Solid (medium dusty form) mes to control dispersion from source towards the worker l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced
mixture/article: <= 100 % t: Solid (medium dusty form) ares to control dispersion from source towards the worker l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
mixture/article: <= 100 % t: Solid (medium dusty form) mes to control dispersion from source towards the worker l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%] ed to personal protection, hygiene and health evaluation rtiveness, Inhalation: 0%]
mixture/article: <= 100 % t: Solid (medium dusty form) ares to control dispersion from source towards the worker 1 ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%] ed to personal protection, hygiene and health evaluation tiveness, Inhalation: 0%] ness, Dermal: 0%]
mixture/article: <= 100 % t: Solid (medium dusty form) ares to control dispersion from source towards the worker 1 ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%] ed to personal protection, hygiene and health evaluation tiveness, Inhalation: 0%] ness, Dermal: 0%]
mixture/article: <= 100 % t: Solid (medium dusty form)
mixture/article: <= 100 % t: Solid (medium dusty form)



<ul> <li>a 100 march 16 march 10 march 10 c an thirtean</li> </ul>	
Duration of activity: <= 8 h/day	
	ares to control dispersion from source towards the worker
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	ed to personal protection, hygiene and health evaluation
Respiratory protection: No [Effect Dermal protection: Yes(Chemica [Effectiveness, Dermal: 80%]	ctiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational conditi	ions affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.6	<b>Contributing scenario controlling worker exposure:</b> 4.6 Mixing or blending in batch processes (PROC 5)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	ares to control dispersion from source towards the worker
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	ed to personal protection, hygiene and health evaluation
Respiratory protection: No [Effect Dermal protection: Yes(Chemica [Effectiveness, Dermal: 80%]	ctiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational conditi	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.7	<b>Contributing scenario controlling worker exposure:</b> 4.7 Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC 8a)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	ares to control dispersion from source towards the worker
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	ed to personal protection, hygiene and health evaluation
Respiratory protection: No [Effect Dermal protection: Yes(Chemica [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational conditi	ions affecting workers exposure
Place of use: Indoor	
Operating temperature: <= 40 °C	



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4.8 Transfer of substance or mixture (charging and discharging) at dedicated facil (PROC 8b)         Product characteristics         Percentage (ww) of substance in mixture/article: <= 100 %         Physical form of the used product: Solid (medium dusty form)         Frequency and duration of us         Duration of activity: <= 8 h/day         Ceneral ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%]         Orditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C         2.9       Contributing scenario controlling worker exposure: 4.9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9)         Product characteristics       Percentage (ww) of substance in mixture?article: <= 100 %. Physical form of the used product: Solid (medium dusty form)         Prequency and duration of use       Duration of activity: <= 8 h/day         Contributing scenario control dispersion fr	
Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form)  Frequency and duration of use Duration of activity: <= 8 h/day  Technical conditions and measures to control dispersion from source towards the worker  General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Other given operational conditions affecting workers exposure Place of use: Indoor Operating temperature: <= 40 °C 2.9  Contributing scenario controlling worker exposure: 4.9 Trunsfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9)  Product characteristics Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form)  Frequency and duration of use Duration of activity: <= 8 h/day Conditions and measures to control dispersion from source towards the worker General ventilation: No [Effectiveness, Inhalation: 0%] Comparise temperature: <= 40 °C 2.0  Control of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form) Frequency and duration of use Duration of activity: <= 8 h/day Conditions and measures to control dispersion from source towards the worker General ventilation: No [Effectiveness, Inhalation: 0%] Conditions and measures (exponent protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Conditions and measures (exponent protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Conditions and measures (exponent protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Conditions and measures (e	cilities
Physical form of the used product: Solid (medium dusty form) Frequency and duration of us  Technical conditions and measures to control dispersion from source towards the worker General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Order given operational conditions affecting workers exposure Place of use: Indoor Operating temperature: <= 40 °C 2.9  Contributing scenario control ling worker exposure: A 9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9)  Product characteristics Precentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form) Frequency and duration of use Duration of activity: <= 8 h/day Technical Conditions and measures to control dispersion from source towards the worker General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation: Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Conditions and measur	
Duration of activity: <= 8 h/day Technical conditions and measures to control dispersion from source towards the worker General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Other given operational conditions affecting workers exposure Place of use: Indoor Operating temperature: <= 40 °C 2.9 Contributing scenario controlling worker exposure: 4.9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9) Product characteristics Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form) Frequency and duration of use Duration of activity: <= 8 h/day Conditions and measures to control dispersion from source towards the worker General ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%] Conditions and measures to control dispersion from source towards the worker General ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%] Conditions and measures to control dispersion from source towards the worker General ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%] Conditions and measures to control dispersion from source towards the worker General ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%, Dermal: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%, Dermal: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Conditions and measures r	
Technical conditions and measures to control dispersion from source towards the worker         General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Inhalation: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	
General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protectio         Effectiveness, Dermal: 80%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	
Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: So [Effectiveness, Inhalation: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	
Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protectio         [Effectiveness, Dermal: 80%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	
Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protectio         [Effectiveness, Dermal: 80%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	
Place of use: Indoor         Operating temperature: <= 40 °C	tion
Operating temperature: <= 40 °C	
4.9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 %	
Percentage (w/w) of substance in mixture/article: <= 100 %	e,
Physical form of the used product: Solid (medium dusty form)         Frequency and duration of use         Duration of activity: <= 8 h/day	
Duration of activity: <= 8 h/day	
Technical conditions and measures to control dispersion from source towards the worker         General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protectio         [Effectiveness, Dermal: 80%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	
General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection         [Effectiveness, Dermal: 80%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	
Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection         [Effectiveness, Dermal: 80%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	
Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection         [Effectiveness, Dermal: 80%] <b>Other given operational conditions affecting workers exposure</b> Place of use: Indoor         Operating temperature: <= 40 °C	
Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection         [Effectiveness, Dermal: 80%] <b>Other given operational conditions affecting workers exposure</b> Place of use: Indoor         Operating temperature: <= 40 °C	
Place of use: Indoor         Operating temperature: <= 40 °C	tion
Operating temperature: <= 40 °C	
4.10 Use as laboratory reagent (PROC 15)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 %	
Percentage (w/w) of substance in mixture/article: <= 100 %	
Physical form of the used product: Solid (medium dusty form)         Frequency and duration of use         Duration of activity: <= 8 h/day	
Duration of activity: <= 8 h/day	
Technical conditions and measures to control dispersion from source towards the worker         General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]	
General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]	
Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]	
Conditions and measures related to personal protection, hygiene and health evaluation	



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Other given operational conditions	affecting work	ters exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
2.11 C		nario controlling worker entrolling and repair		nery (PROC 28)
Product characteristics			·	
Percentage (w/w) of substance in mi Physical form of the used product: S				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measure	s to control disp	persion from source toward	ls the work	ker
General ventilation: Basic general ve Occupational Health and Safety Mar Local exhaust ventilation: No [Effec	agement System	n: Advanced	veness, Inha	alation: 0%]
Conditions and measures related t	o personal prot	ection, hygiene and health	evaluation	
Respiratory protection: No [Effective Dermal protection: Yes(Chemically [Effectiveness, Dermal: 80%]			other) appr	opriate dermal protection
Other given operational conditions	affecting work	ters exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
SECTION 3:	4.12 Exposure	e estimation		
3.1. Environment				
Release	Release esti	mation method	Explanat	ions
Water	Estimated re	lease rate	Local rele	ease rate: 3 kg/day
Air	Estimated re	lease rate	Local rele	ease rate: 0.5 kg/day
Non-Agricultural Soil	Estimated re	lease factor	Release f	actor after on-site RMM: 0%
Protection target		Exposure concentration		Risk quantification (RCR
Fresh water		Local PEC: 0.155 mg/l		0.3
Sedimentation (Fresh water)		Local PEC: 0.766 mg/kg	dw	0.3
Marine water		Local PEC: 0.0155 mg/l		0.3
Sedimentation (Marine water)		Local PEC: 0.077 mg/kg dw		0.3
Sewage Treatment Plant		Local PEC: 1.497 mg/l		< 0.01
Agricultural soil		Local PEC: 0.02917 mg/kg dw		0.08
Man via Environment - Inhalation (Systemic effects)		Concentration in air: 3.97E-5 mg/m <sup>3</sup>		< 0.01
Man via Environment - Oral		Exposure via food consumption: 9.7E-3 mg/kgbw/day		0.02
Man via Environment – Combined routes				0.02
3.2. Worker				
	worker evne	re: Chemical production or r		closed process without
<b>Contributing scenario controlling</b> likelihood of exposure or processes w			DC 1)	
Contributing scenario controlling				Risk quantification (RCR)
<b>Contributing scenario controlling</b> likelihood of exposure or processes w	with equivalent of	containment conditions (PRO		<b>Risk quantification (RCR)</b>



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Dermal, Systemic effects, Long Term	0.034 mg/kgbw/day	< 0.01
Combined routes, Systemic effects, Long Term		< 0.01
Contributing scenario controlling worker exposu occasional controlled exposure or processes with eq		
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.5 mg/m <sup>3</sup>	0.06
Inhalation, Systemic effects, Acute	2 mg/m <sup>3</sup>	0.024
Dermal, Systemic effects, Long Term	1.37 mg/kgbw/day	0.116
Combined routes, Systemic effects, Long Term		0.176
Contributing scenario controlling worker exposu- batch processes with occasional controlled exposure		
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m <sup>3</sup>	0.12
Inhalation, Systemic effects, Acute	4 mg/m <sup>3</sup>	0.049
Dermal, Systemic effects, Long Term	0.69 mg/kgbw/day	0.058
Combined routes, Systemic effects, Long Term		0.179
Contributing scenario controlling worker expose 4)	ure:Chemical production where oppo	ortunity for exposure arises (PROC
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kgbw/day	0.116
Combined routes, Systemic effects, Long Term		0.719
Contributing scenario controlling worker expos	ure:Mixing or blending in batch proc	esses (PROC 5)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
Contributing scenario controlling worker expose non-dedicated facilities (PROC 8a)	ure: Transfer of substance or mixture	(charging and discharging) at
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
<b>Contributing scenario controlling worker expose</b> dedicated facilities (PROC 8b)	ure:Transfer of substance or mixture	(charging and discharging) at non
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m <sup>3</sup>	0.12
Inhalation, Systemic effects, Acute	4 mg/m <sup>3</sup>	0.049
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232



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Melamină

Exposure route	Exposure route		Risk quantification (RCR)
Inhalation, Systemic effects, Long Te	erm	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute		20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	1	1.372 mg/kgbw/day	0.116
Combined routes, Systemic effects, L	ong Term		0.719
Contributing scenario controlling v	vorker exposu	re:Use as laboratory reagent (PROC 1	5)
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Te	erm	0.5 mg/m <sup>3</sup>	0.06
Inhalation, Systemic effects, Acute		2 mg/m <sup>3</sup>	0.024
Dermal, Systemic effects, Long Term		0.34 mg/kgbw/day	0.029
Combined routes, Systemic effects, Long Term			0.089
Contributing scenario controlling w	orker exposu	re:Manual maintenance (cleaning and r	repair) of machinery (PROC 28)
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term		5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute		20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term		2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term			0.835
SECTION 4: 4.13 Guidance the ES		to DU to evaluate whether he works	inside the boundaries set by
Remarks on exposure data from extern ECETOC TRA Workers 3.1:	nal estimation		

Explanation: The exposure estimates for PROC 8a are used, as TRA Workers cannot predict exposure for PROC 28 and these estimates can be considered suitable for estimating exposures during manual maintenance.



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Melamină

### 5. Exposure Scenario 5: Use at industrial sites - Use as additive in foams

SECTI		Title of exposure scenario		
		Use at industrial sites - Use as additive in foams		
Contril	outing scenario controlli	ng environmental exposure		
CS1				
Contril	uting scenario controlli	ng worker exposure		
CS2		refinery in closed process without likelihood of exposure or nt containment conditions	PROC1	
CS3		refinery in closed continuous process with occasional rocesses with equivalent containment conditions	PROC2	
CS4		tion in the chemical industry in closed batch processes with posure or processes with equivalent containment conditions	PROC3	
CS5	Chemical production wh	ere opportunity for exposure arises	PROC4	
CS6	Mixing or blending in b	atch processes	PROC5	
CS7	Transfer of substance or facilities	mixture (charging and discharging) at non-dedicated	PROC8a	
CS8	Transfer of substance or	mixture (charging and discharging) at dedicated facilities	PROC8b	
CS9	Transfer of substance or including weighing)	mixture into small containers (dedicated filling line,	PROC9	
CS10	Use as laboratory reager	nt	PROC15	
CS11	Hand-mixing with intim	ate contact and only PPE available	PROC19	
CS12	Manual maintenance (cl	eaning and repair) of machinery	PROC28	
Subseq	uent service life exposure	e scenario(s):		
ES8	Service life (worker at in	ndustrial site) - PU foams - Workers (industrial)		
ES11	Service life (consumers)	- PU foams – Consumers		
SECTI	ON 2:	Conditions of use		
2.1	2.1 Contributing scenario controlling environmental exposure: 5.1 Use as additive in foams (ERC 5)			
Amoun	t used, frequency and du	uration of use (or from service life)		
		vant for the assessment as scenario specific releases are estimate evant for the assessment as scenario specific releases are estim		
Conditi	ons and measures related t	o biological sewage treatment plant		
Dischar	cal STP: Standard [Effecti ge rate of STP: >= 2E3 m tion of the STP sludge on	3/day		
Other g	given operational conditi	ons affecting environmental exposure		
Receivi	ng surface water flow: >=	1.8E4 m3/day		
2.2		Contributing scenario controlling worker exposure: 5.2 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC 1)		
Produc	t characteristics			
		mixture/article: <= 100 % : Solid (medium dusty form)		
Freque	ncy and duration of use			
Duratio	n of activity: <= 8 h/day			
Techni	cal conditions and measu	res to control dispersion from source towards the worker		
		l ventilation (1-3 air changes per hour) [Effectiveness, Inhalati Ianagement System: Advanced	on: 0%]	



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Local exhaust ventilation: No [Ef	fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effec Dermal protection: No [Effective	
Other given operational conditi	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.3	<b>Contributing scenario controlling worker exposure:</b> 5.3 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC 2)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	res to control dispersion from source towards the worker
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effect Dermal protection: No [Effective	tiveness, Inhalation: 0%] ness, Dermal: 0%]
Other given operational conditi	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.4	<b>Contributing scenario controlling worker exposure:</b> 5.4 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions (PROC 3)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	res to control dispersion from source towards the worker
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effect Dermal protection: No [Effective	
Other given operational conditi	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.5	<b>Contributing scenario controlling worker exposure:</b> 5.5 Chemical production where opportunity for exposure arises (PROC 4)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	



#### Frequency and duration of use

Duration of activity: <= 8 h/day

#### Technical conditions and measures to control dispersion from source towards the worker

General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced

Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]

#### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection: No [Effectiveness, Inhalation: 0%]

Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection [Effectiveness, Dermal: 80%]

#### Other given operational conditions affecting workers exposure

Place of use: Indoor

Operating temperature:  $\leq 40 \,^{\circ}\text{C}$ 

2.6

**Contributing scenario controlling worker exposure:** 5.6 Mixing or blending in batch processes (PROC 5)

#### **Product characteristics**

Percentage (w/w) of substance in mixture/article: <= 100 %

Physical form of the used product: Solid (medium dusty form)

### Frequency and duration of use

Duration of activity: <= 8 h/day

#### Technical conditions and measures to control dispersion from source towards the worker

General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced

Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]

#### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection: No [Effectiveness, Inhalation: 0%]

Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection [Effectiveness, Dermal: 80%]

#### Other given operational conditions affecting workers exposure

Place of use: Indoor

Operating temperature: <= 40 °C

2.7	Contributing scenario controlling worker exposure:
	5.7 Transfer of substance or mixture (charging and discharging) at non-dedicated
	facilities (PROC 8a)

#### **Product characteristics**

Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form)

#### Frequency and duration of use

Duration of activity: <= 8 h/day

#### Technical conditions and measures to control dispersion from source towards the worker

General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced

Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]

#### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection: No [Effectiveness, Inhalation: 0%]

Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection [Effectiveness, Dermal: 80%]

#### Other given operational conditions affecting workers exposure

Place of use: Indoor

Operating temperature: <= 40 °C



2.8	Contributing scenario controlling worker exposure: 5.8 Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC 8b)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used produc	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measured	ires to control dispersion from source towards the worker
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	ed to personal protection, hygiene and health evaluation
Respiratory protection: No [Effect Dermal protection: Yes(Chemica [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational conditional	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.9	<b>Contributing scenario controlling worker exposure:</b> 5.9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used produc	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measured	ares to control dispersion from source towards the worker
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	ed to personal protection, hygiene and health evaluation
Respiratory protection: No [Effec Dermal protection: Yes(Chemica [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational condition	ions affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.10	Contributing scenario controlling worker exposure: 5.10 Use as laboratory reagent (PROC 15)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used produc	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measured	ires to control dispersion from source towards the worker
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and massures relate	ed to personal protection, hygiene and health evaluation



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Respiratory protection: No [Effec Dermal protection: No [Effectiven				
Other given operational condition	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.11	<b>Contributing scenario controlling worker e</b> 5.11 Hand-mixing with intimate contact and o	<b>xposure:</b> nly PPE ava	ailable (PROC 19)	
Product characteristics				
Percentage (w/w) of substance in Physical form of the used product				
Frequency and duration of use				
Duration of activity: <= 4 h/day				
Technical conditions and measu	res to control dispersion from source toward	ls the work	ter	
Occupational Health and Safety M	ventilation (1-3 air changes per hour) [Effectiv Janagement System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]	veness, Inha	llation: 0%]	
Conditions and measures relate	d to personal protection, hygiene and health	evaluation		
Respiratory protection: No [Effec Dermal protection: Yes(Chemical appropriate dermal protection [Eff	ly resistant gloves conforming to EN374 with s	pecific acti	vity training) and (other)	
Other given operational condition	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.12	Contributing scenario controlling worker exposure: 5.12 Manual maintenance (cleaning and repair) of machinery (PROC 28)			
Product characteristics				
Percentage (w/w) of substance in Physical form of the used product				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measu	res to control dispersion from source toward	ls the work	ter	
Occupational Health and Safety M	ventilation (1-3 air changes per hour) [Effectiv Ianagement System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]	veness, Inha	lation: 0%]	
Conditions and measures relate	d to personal protection, hygiene and health	evaluation		
Respiratory protection: No [Effec Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] ly resistant gloves conforming to EN374) and (	other) appro	opriate dermal protection	
Other given operational condition	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
SECTION 3:	SECTION 3: 5.13 Exposure estimation			
3.1. Environment				
Release	Release estimation method	Explanat	ions	
Water	Estimated release rate	Local rele	ease rate: 3 kg/day	
Air	Estimated release rate	Local rele	ease rate: 0.5 kg/day	
Non-Agricultural Soil	Estimated release factor	Release fa	actor after on-site RMM: 0%	
Protection target	Protection target Exposure concentration Risk quantification (RCR)			



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Fresh water	Local DEC: 0.155 mg/l	0.3
	Local PEC: 0.155 mg/l	
Sedimentation (Fresh water)	Local PEC: 0.766 mg/kg dw	0.3
Marine water	Local PEC: 0.0155 mg/l	0.3
Sedimentation (Marine water)	Local PEC: 0.077 mg/kg dw	0.3
Sewage Treatment Plant	Local PEC: 1.497 mg/l	< 0.01
Agricultural soil	Local PEC: 0.017 mg/kg dw	0.08
Man via Environment - Inhalation (Systemic effects)	Concentration in air: 3.971E-5 mg/m <sup>3</sup>	< 0.01
Man via Environment - Oral	Exposure via food consumption: 9.7E-3 mg/kgbw/day	0.02
Man via Environment – Combined routes		0.02
3.2. Worker		
<b>Contributing scenario controlling worker exposur</b> likelihood of exposure or processes with equivalent of		closed process without
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.01 mg/m <sup>3</sup>	< 0.01
Inhalation, Systemic effects, Acute	0.04 mg/m <sup>3</sup>	< 0.01
Dermal, Systemic effects, Long Term	0.034 mg/kgbw/day	< 0.01
Combined routes, Systemic effects, Long Term		< 0.01
Contributing scenario controlling worker exposur occasional controlled exposure or processes with equ		
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.5 mg/m <sup>3</sup>	0.06
Inhalation, Systemic effects, Acute	2 mg/m <sup>3</sup>	0.024
Dermal, Systemic effects, Long Term	1.37 mg/kgbw/day	0.116
Combined routes, Systemic effects, Long Term		0.176
<b>Contributing scenario controlling worker exposur</b> batch processes with occasional controlled exposure		
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m <sup>3</sup>	0.12
Inhalation, Systemic effects, Acute	4 mg/m <sup>3</sup>	0.049
Dermal, Systemic effects, Long Term	0.69 mg/kgbw/day	0.058
Combined routes, Systemic effects, Long Term		0.179
Contributing scenario controlling worker exposu 4)	re:Chemical production where opportu	inity for exposure arises (PROC
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kgbw/day	0.116
a		0.719
Combined routes, Systemic effects, Long Term		
Combined routes, Systemic effects, Long Term Contributing scenario controlling worker exposu	<b>re:</b> Mixing or blending in batch process	
	re:Mixing or blending in batch process Exposure estimate -Worker	
Contributing scenario controlling worker exposu		ses (PROC 5)
Contributing scenario controlling worker exposu Exposure route	Exposure estimate -Worker	Risk quantification (RCR)



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Combined routes, Systemic effects, Long Term			0.835
<b>Contributing scenario controlling</b> non-dedicated facilities (PROC 8a)	worker exposu	<b>Ire:</b> Transfer of substance or mixture	e (charging and discharging) at
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute		20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Ter	m	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects,	Long Term		0.835
<b>Contributing scenario controlling</b> dedicated facilities (PROC 8b)	worker exposu	<b>ire:</b> Transfer of substance or mixture	e (charging and discharging) at non
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	Term	1 mg/m <sup>3</sup>	0.12
Inhalation, Systemic effects, Acute		4 mg/m <sup>3</sup>	0.049
Dermal, Systemic effects, Long Ter	m	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects,	Long Term		0.353
<b>Contributing scenario controlling</b> filling line, including weighing) (PR		ire:Transfer of substance or mixture	into small containers (dedicated
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute		20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term		1.372 mg/kgbw/day	0.116
Combined routes, Systemic effects, Long Term			0.719
Contributing scenario controlling	worker exposu	ire:Use as laboratory reagent (PRO	C 15)
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term		0.5 mg/m <sup>3</sup>	0.06
Inhalation, Systemic effects, Acute		2 mg/m <sup>3</sup>	0.024
Dermal, Systemic effects, Long Ter	m	0.34 mg/kgbw/day	0.029
Combined routes, Systemic effects, Long Term			0.089
<b>Contributing scenario controlling</b> 19)	worker exposu	ire:Hand-mixing with intimate conta	act and only PPE available (PROC
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	Term	3 mg/m <sup>3</sup>	0.361
Inhalation, Systemic effects, Acute		20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Ter	m	7.072 mg/kgbw/day	0.599
Combined routes, Systemic effects,	Long Term		0.961
Contributing scenario controlling	worker exposu	re:Manual maintenance (cleaning an	nd repair) of machinery (PROC 28)
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute		20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term		2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects,	Long Term		0.835
SECTION 4:	5.14 Guidanc the ES	e to DU to evaluate whether he wo	orks inside the boundaries set by



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Melamină

Explanation: The exposure estimates for PROC 8a are used, as TRA Workers cannot predict exposure for PROC 28 and these estimates can be considered suitable for estimating exposures during manual maintenance.



### 6. Exposure Scenario 6: Use at industrial sites - Use as additive in intumescent coatings

o. SECTI		Title of exposure scenario	пдо	
		Use at industrial sites - Use as additive in intumescent coa	tings	
Contril	buting scenario controlli	ng environmental exposure	ing,	
CS1	Use as additive in intum		ERC5	
	buting scenario controlli			
CS2	Manufacture or formula	tion in the chemical industry in closed batch processes with posure or processes with equivalent containment conditions	PROC3	
CS3	Chemical production wh	here opportunity for exposure arises	PROC4	
CS4	Mixing or blending in b	atch processes	PROC5	
CS5	Industrial spraying with	Local Exhaust Ventilation (LEV)	PROC7	
CS6	Industrial spraying with	out Local Exhaust Ventilation (LEV)	PROC7	
CS7	Transfer of substance or facilities	mixture (charging and discharging) at non-dedicated	PROC8a	
CS8	Transfer of substance or	mixture (charging and discharging) at dedicated facilities	PROC8b	
CS9	Transfer of substance or including weighing)	mixture into small containers (dedicated filling line,	PROC9	
CS10	Roller application or bru	Ishing	PROC10	
CS11	Treatment of articles by	dipping and pouring	PROC13	
CS12	Use as laboratory reagen	nt	PROC15	
CS13	Hand-mixing with intim	ate contact and only PPE available	PROC19	
CS14	4 Manual maintenance (cleaning and repair) of machinery PROC28			
Subseq	uent service life exposur	e scenario(s):		
ES9	Service life (worker at industrial site) - Intumescent coatings - Workers (industrial)			
ES10	Service life (professional worker) - Intumescent coatings - Professional Workers			
ES12	Service life (consumers) - Intumescent coating – Consumers			
SECTI	ON 2:	Conditions of use		
2.1		<b>Contributing scenario controlling environmental exposure</b> 6.1 Use as additive in intumescent coatings (ERC 5)	e:	
Amoun	t used, frequency and du	rration of use (or from service life)		
		vant for the assessment as scenario specific releases are estimat evant for the assessment as scenario specific releases are estim		
Conditi	ons and measures related t	to biological sewage treatment plant		
Dischar	cal STP: Standard [Effecti ge rate of STP: >= 2E3 m tion of the STP sludge on	3/day		
Other g	given operational conditi	ons affecting environmental exposure		
Receivi	ng surface water flow: >=	1.8E4 m3/day		
2.2		<b>Contributing scenario controlling worker exposure:</b> 6.2 Manufacture or formulation in the chemical industry in cl occasional controlled exposure or processes with equivalent c (PROC 3)		
Produc	t characteristics			
		mixture/article: <= 100 % :: Solid (medium dusty form)		
Freque	ncy and duration of use			
Duratio	n of activity: <= 8 h/day			



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Technical conditions and measu	res to control dispersion from source towards the worker
Occupational Health and Safety N	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Aanagement System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effect Dermal protection: No [Effective	
Other given operational conditi	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.3	Contributing scenario controlling worker exposure: 6.3 Chemical production where opportunity for exposure arises (PROC 4)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	res to control dispersion from source towards the worker
Occupational Health and Safety N	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effec Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational conditi	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.4	<b>Contributing scenario controlling worker exposure:</b> 6.4 Mixing or blending in batch processes (PROC 5)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	res to control dispersion from source towards the worker
Occupational Health and Safety N	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effec Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational conditi	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.5	Contributing scenario controlling worker exposure: 6.5 Industrial spraying with Local Exhaust Ventilation (LEV) (PROC 7)
Product characteristics	



Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	ires to control dispersion from source towards the worker
Ventilation working room: Gener Occupational Health and Safety M Local exhaust ventilation: Yes (T	
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effect Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational conditi	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.6	Contributing scenario controlling worker exposure: 6.6 Industrial spraying without Local Exhaust Ventilation (LEV) (PROC 7)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	ires to control dispersion from source towards the worker
Ventilation working room: Gener Occupational Health and Safety M Local exhaust ventilation: No [Ef	
Conditions and measures relate	d to personal protection, hygiene and health evaluation
	birator with APF of 10) [Effectiveness, Inhalation: 90%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational conditi	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.7	<b>Contributing scenario controlling worker exposure:</b> 6.7 Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC 8a)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	ires to control dispersion from source towards the worker
Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Aanagement System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effect Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational conditi	ons affecting workers exposure



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Place of use: Indoor Operating temperature: <= 40 °C				
2.8	Contributing scenario controlling worker exposure: 6.8 Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC 8b)			
Product characteristics				
Percentage (w/w) of substance in Physical form of the used product				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measu	res to control dispersion from source towards the worker			
Occupational Health and Safety N	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]			
Conditions and measures relate	d to personal protection, hygiene and health evaluation			
Respiratory protection: No [Effec Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection			
Other given operational conditi	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.9	<b>Contributing scenario controlling worker exposure:</b> 6.9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9)			
Product characteristics				
Percentage (w/w) of substance in Physical form of the used product				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measu	res to control dispersion from source towards the worker			
Occupational Health and Safety N	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]			
Conditions and measures relate	d to personal protection, hygiene and health evaluation			
Respiratory protection: No [Effec Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection			
Other given operational conditi	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.10	<b>Contributing scenario controlling worker exposure:</b> 6.10 Roller application or brushing (PROC 10)			
Product characteristics				
Percentage (w/w) of substance in Physical form of the used product				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measures to control dispersion from source towards the worker				
Ventilation working room: Gener Occupational Health and Safety M				



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Lacal eshaust ventilation: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Dermal protection: Yes(ChemicallY resistant gloves conforming to EN374) and (other) appropriate dermal protection [Effectiveness, Dermal: 80%] Contributing scenario controlling worker exposure: a.11 Contributing scenario controlling worker exposure: Control of activity: <= 8 h/day Frequency and duration of use Prequency and duration of use Control dispersion from source towards the worker General ventilation: Basic general ventilation: 0% or [Effectiveness, Inhalation: 0%] Conditions and measures retor control dispersion from source towards the worker Conditions and measures in product: I aquid Conditions and measures in terta (USA) Conditions and measures in terta (USA) Conditions and measures retor (USA) Conditions and measures retained to personal protection, hygiene and health evaluation (Effectiveness, Dermal: 80%] Conditions and measures retained (USA)					
Respiratory protection: No (Effectiveness, Inhulation: 0%)         Dermal protection: Yes/Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection         [Effectiveness, Dermal: 80%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C					
Dernial protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dernal protection [Effectiveness, Dernal: 80%]  Other given operational conditions affecting workers exposure Place of use: Indoor Operating temperature: <= 0 °C  2.11 Contributing scenario controlling worker exposure: 6.11 Treatment of articles by dipping and pouring (PROC 13) Product Characteristics Precentage (w/w) of substance in mixture/article: <= 30 % Physical form of the used product: Liquid Frequency and duration of use Duration of activity: <= 8 Mday General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%] Dernal protection: No [Effectiveness, Inhalation: 0%] Dernal protection: No [Effectiveness, Inhalation: 0%] Dernal protection: No [Effectiveness, Inhalation: 0%] Other given operational conditions affecting workers exposure Place of use: Indoor Operating temperature: <= 0 °C 2.12 Contributing scenario controlling worker exposure:					
Place of use: Indoor Operating temperature: <= 40 °C Contributing scenario controlling worker exposure: 6.11 Treatment of articles by dipping and pouring (PROC 13) Product characteristics Preentage (ww) of substance in mixture/article: <= 30 % Physical form of the used product: Liquid Prequency and duration of use Duration of activity: <= 8 h/day Technical conditions and measures to control dispersion from source towards the worker General venilation: Basic general venilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced Local exhaust venilation: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Other given operational conditions affecting workers exposure Place of use: Indoor Operating temperature: <= 40 °C 2.12 Contributing scenario control dispersion from source towards the worker Frequency and duration of use Duration of activity: <= 8 h/day Technical conditions and measures to control dispersion from source towards the worker General veniliation: No [Effectiveness, Inhalation: 0%] Product characteristics Product characteristics Product characteristics Product characteristics Product characteristics Product characteristics Product characteristics Protection of due used product: Solid (medium dusty form) Frequency and duration of use Duration of activity: <= 8 h/day Technical conditions and measures to control dispersion from source towards the worker General ventilation: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation General ventilation: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Conditions and measures, thore (Merce Solid Courd pertainal conditions affecting wor	Dermal protection: Yes(Chemical	tiveness, Inhalation: 0%] Ily resistant gloves conforming to EN374) and (other) appropriate dermal protection			
Operating temperature: <= 40 °C	Other given operational conditi	ons affecting workers exposure			
6.11 Treatment of articles by dipping and pouring (PROC 13)         Product characteristics         Preventage (wvy) of substance in mixtur/article: <= 30 %					
Percentage (w/w) of substance in mixture/article: <= 30 % Physical form of the used product: Liquid  Frequency and duration of use  Duration of activity: <= 8 h/day  Technical conditions and measures to control dispersion from source towards the worker  General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Dermal protection: No [Effectiveness, Inhalation: 0%] Dermal protection: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Dermal protection: Ves(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection [Effectiveness, Dermal: 80%]  Other given operational conditions affecting workers exposure Place of use: Indoor Operating temperature: <= 40 °C Product characteristics Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form) Frequency and duration of use Duration of activity: <= 8 h/day  Technical conditions and measures to control dispersion from source towards the worker General ventilation: No [Effectiveness, Inhalation: 0%] Cocupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%] Cocupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Conditions and measures related to personal protection, hygiene and health evaluation Respiratory protection: No [Effectiveness, Inhalation: 0%] Conditions and measures	2.11				
Physical form of the used product: Liquid         Frequency and duration of ssc         Duration of activity: <= 8 h/day	Product characteristics				
Duration of activity: <= 8 h/day					
Technical conditions and measures to control dispersion from source towards the worker         General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection         [Effectiveness, Inhalation: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	Frequency and duration of use				
General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Inhalation: 0%]         Place of use: Indoor         Operating temperature: <= 40 °C	Duration of activity: <= 8 h/day				
Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection         [Effectiveness, Dermal: 80%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	Technical conditions and measu	res to control dispersion from source towards the worker			
Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection         [Effectiveness, Dermal: 80%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	Occupational Health and Safety N	Janagement System: Advanced			
Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection         [Effectiveness, Dermal: 80%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	Conditions and measures relate	d to personal protection, hygiene and health evaluation			
Place of use: Indoor Operating temperature: <= 40 °C	Dermal protection: Yes(Chemical				
Operating temperature: <= 40 °C	Other given operational conditi	ons affecting workers exposure			
6.12 Use as laboratory reagent (PROC 15)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 %					
Percentage (w/w) of substance in mixture/article: <= 100 %	2.12				
Physical form of the used product: Solid (medium dusty form)         Frequency and duration of use         Duration of activity: <= 8 h/day	Product characteristics				
Duration of activity: <= 8 h/day					
Technical conditions and measures to control dispersion from source towards the worker         General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Dermal: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor       Operating temperature: <= 40 °C	Frequency and duration of use				
General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Dermal: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	Duration of activity: <= 8 h/day				
Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Dermal: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	Technical conditions and measu	res to control dispersion from source towards the worker			
Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Dermal: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	Occupational Health and Safety N	Aanagement System: Advanced			
Dermal protection: No [Effectiveness, Dermal: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor Operating temperature: <= 40 °C	Conditions and measures relate	d to personal protection, hygiene and health evaluation			
Place of use: Indoor       Operating temperature: <= 40 °C					
Operating temperature: <= 40 °C	Other given operational conditi	ons affecting workers exposure			
6.13 Hand-mixing with intimate contact and only PPE available (PROC 19)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 30 %					
Percentage (w/w) of substance in mixture/article: <= 30 % Physical form of the used product: Liquid	2.13				
Physical form of the used product: Liquid	Product characteristics				
Frequency and duration of use					
	Frequency and duration of use				



Duration of activity: <= 8 h/day				
Technical conditions and measures to control dispersion from source towards the worker				
Ventilation working room: General ventilation (mechanical) Occupational Health and Safety Management System: Advanced Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]				
Conditions and measures related to	o personal prot	ection, hygiene and health	evaluation	
Respiratory protection: No [Effective Dermal protection: Yes(Chemically r appropriate dermal protection [Effect	esistant gloves of	conforming to EN374 with s	pecific acti	vity training) and (other)
Other given operational conditions	affecting work	ers exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
		nario controlling worker extension to the second se		nery (PROC 28)
Product characteristics				
Percentage (w/w) of substance in mix Physical form of the used product: So				
Frequency and duration of use				
Duration of activity: <= 8 h/day				
Technical conditions and measures	to control disp	ersion from source toward	ls the work	ter
Occupational Health and Safety Man	General ventilation: Basic general ventilation (1-3 air cl Occupational Health and Safety Management System: A Local exhaust ventilation: No [Effectiveness, Inhalation			lation: 0%]
Conditions and measures related to	o personal prot	ection, hygiene and health	evaluation	
Respiratory protection: No [Effective Dermal protection: Yes(Chemically r [Effectiveness, Dermal: 80%]			other) appro	opriate dermal protection
Other given operational conditions	affecting work	ers exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
SECTION 3:	6.15 Exposure	estimation		
3.1. Environment				
Release	Release estin	nation method	Explanat	ions
Water	Estimated re	lease rate	Local release rate: 3 kg/day	
Air	Estimated re	lease rate	Local rele	ease rate: 0.5 kg/day
Non-Agricultural Soil	Estimated re	lease factor	Release fa	actor after on-site RMM: 0%
Protection target		Exposure concentration		Risk quantification (RCR)
Fresh water		Local PEC: 0.155 mg/l		
Sedimentation (Fresh water)		Local PEC: 0.766 mg/kg dw		0.3
Marine water		Local PEC: 0.0155 mg/l		0.3
Sedimentation (Marine water)		Local PEC: 0.077 mg/kg dw		0.3
Sewage Treatment Plant		Local PEC: 1.497 mg/l		< 0.01
Agricultural soil		Local PEC: 0.017 mg/kg dw		0.08
Man via Environment - Inhalation (Systemic effects)		Concentration in air: 3.97E-5 mg/m <sup>3</sup>		< 0.01
Man via Environment - Oral		Exposure via food consumption: 9.7E-3 mg/kgbw/day		0.02
Man via Environment – Combined routes				0.02



3.2. Worker		
Contributing scenario controlling worker expos batch processes with occasional controlled exposur		
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m <sup>3</sup>	0.12
Inhalation, Systemic effects, Acute	4 mg/m <sup>3</sup>	0.049
Dermal, Systemic effects, Long Term	0.69 mg/kgbw/day	0.058
Combined routes, Systemic effects, Long Term		0.179
Contributing scenario controlling worker exposed)	sure:Chemical production where oppo	rtunity for exposure arises (PROC
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kgbw/day	0.116
Combined routes, Systemic effects, Long Term		0.719
Contributing scenario controlling worker expos	sure:Mixing or blending in batch proc	esses (PROC 5)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
<b>Contributing scenario controlling worker expos</b> 7)	sure:Industrial spraying with Local Ex	chaust Ventilation (LEV) (PROC
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.4 mg/m <sup>3</sup>	0.048
Inhalation, Systemic effects, Acute	0.4 mg/m <sup>3</sup>	< 0.01
Dermal, Systemic effects, Long Term	8.572 mg/kgbw/day	0.726
Combined routes, Systemic effects, Long Term		0.775
Contributing scenario controlling worker expose (PROC 7)	sure:Industrial spraying without Local	Exhaust Ventilation (LEV)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.795 mg/m <sup>3</sup>	0.096
Inhalation, Systemic effects, Acute	0.795 mg/m <sup>3</sup>	< 0.01
Dermal, Systemic effects, Long Term	8.572 mg/kgbw/day	0.726
Combined routes, Systemic effects, Long Term		0.822
<b>Contributing scenario controlling worker expos</b> non-dedicated facilities (PROC 8a)	sure: Transfer of substance or mixture	(charging and discharging) at
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
<b>Contributing scenario controlling worker expos</b> dedicated facilities (PROC 8b)	sure:Transfer of substance or mixture	(charging and discharging) at non
		1



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Inhalation, Systemic effects, Long Terr	m	1 mg/m <sup>3</sup>	0.12
Inhalation, Systemic effects, Acute		4 mg/m <sup>3</sup>	0.049
Dermal, Systemic effects, Long Term		2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Lo	ng Term		0.353
<b>Contributing scenario controlling we</b> filling line, including weighing) (PRO		<b>re:</b> Transfer of substance or mixture	e into small containers (dedicated
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Terr	m	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute		20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term		1.372 mg/kgbw/day	0.116
Combined routes, Systemic effects, Lo	ng Term		0.719
Contributing scenario controlling we	orker exposur	e:Roller application or brushing (F	PROC 10)
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Terr	m	3.59 mg/m <sup>3</sup>	0.433
Inhalation, Systemic effects, Acute		3.59 mg/m <sup>3</sup>	0.044
Dermal, Systemic effects, Long Term		5.486 mg/kgbw/day	0.465
Combined routes, Systemic effects, Lo	ng Term		0.897
Contributing scenario controlling we	orker exposur	e:Treatment of articles by dipping	and pouring (PROC 13)
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Terr	m	0.525 mg/m <sup>3</sup>	0.063
Inhalation, Systemic effects, Acute		0.525 mg/m <sup>3</sup>	< 0.01
Dermal, Systemic effects, Long Term		2.743 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term			0.296
Contributing scenario controlling we	orker exposur	e:Use as laboratory reagent (PRO	C 15)
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Terr	m	0.5 mg/m <sup>3</sup>	0.06
Inhalation, Systemic effects, Acute		2 mg/m <sup>3</sup>	0.024
Dermal, Systemic effects, Long Term		0.34 mg/kgbw/day	0.029
Combined routes, Systemic effects, Lo	ng Term		0.089
<b>Contributing scenario controlling wo</b> 19)	orker exposur	e:Hand-mixing with intimate conta	act and only PPE available (PROC
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Terr	m	1.74 mg/m <sup>3</sup>	0.21
· ·		1.74 mg/m <sup>3</sup>	0.021
Inhalation, Systemic effects, Acute	•		
Inhalation, Systemic effects, Acute Dermal, Systemic effects, Long Term		7.072 mg/kgbw/day	0.599
Dermal, Systemic effects, Long Term	ng Term	7.072 mg/kgbw/day	0.599 0.809
Dermal, Systemic effects, Long Term Combined routes, Systemic effects, Lo			0.809
Dermal, Systemic effects, Long Term Combined routes, Systemic effects, Lo <b>Contributing scenario controlling wo</b>			0.809
Dermal, Systemic effects, Long Term Combined routes, Systemic effects, Lo <b>Contributing scenario controlling wo</b>	orker exposure	e:Manual maintenance (cleaning a	0.809 nd repair) of machinery (PROC 28
Dermal, Systemic effects, Long Term Combined routes, Systemic effects, Lo <b>Contributing scenario controlling wo</b> <b>Exposure route</b> Inhalation, Systemic effects, Long Terr	orker exposure	e:Manual maintenance (cleaning an Exposure estimate -Worker	0.809 nd repair) of machinery (PROC 28 Risk quantification (RCR)
Dermal, Systemic effects, Long Term Combined routes, Systemic effects, Lo <b>Contributing scenario controlling wo</b> <b>Exposure route</b> Inhalation, Systemic effects, Long Term Inhalation, Systemic effects, Acute	orker exposure	e:Manual maintenance (cleaning an Exposure estimate -Worker 5 mg/m <sup>3</sup>	0.809 nd repair) of machinery (PROC 28 <b>Risk quantification (RCR)</b> 0.602
Dermal, Systemic effects, Long Term Combined routes, Systemic effects, Lo <b>Contributing scenario controlling wo</b> <b>Exposure route</b> Inhalation, Systemic effects, Long Terr	m	e:Manual maintenance (cleaning an Exposure estimate -Worker 5 mg/m <sup>3</sup> 20 mg/m <sup>3</sup>	0.809         nd repair) of machinery (PROC 28         Risk quantification (RCR)         0.602         0.243



#### Remarks on exposure data from external estimation tools: Stoffenmanager 8: Explanation: Inhalation exposure concentration estimated using Stoffenmanager® (version 8) - Activity/type of task: Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze - Distance to task: In the breathing zone of the worker (distance head-product < 1 m) (worst-case assumption) - Local controls: No control measures at the source (refinement due to LEV done outside Stoffenmanager®, see below) - Ventilation working room: General ventilation (mechanical) - Volume of the working room: 100-1000 m3 - Regular cleaning of work area (daily): Yes - Regular inspection and maintenance (at least monthly): Yes - Presence of secondary emission sources (worst-case assumptions); Other workers using the same substance simultaneously: Yes A period of evaporation, drying or curing after the activity (with prolonged emission of vapours): Yes The concentration during the task due to the activity undertaken is estimated to be 7.95 mg/m3, resulting in an exposure concentration of 0.4 mg/m3 due to the use of LEV with an effectiveness of 95% (TRA effectiveness). As the task is performed for 8 hours, the daily average concentration equals the task concentration. In accordance with the ECHA Guidance (Chapter R.14), this estimated concentration is therefore considered to be the short-term as well as the long-term inhalation exposure estimate (90th percentiles). Stoffenmanager 8: Explanation: Inhalation exposure concentration estimated using Stoffenmanager® (version 8) - Activity/type of task: Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze - Distance to task: In the breathing zone of the worker (distance head-product < 1 m) (worst-case assumption) - Local controls: No control measures at the source - Ventilation working room: General ventilation (mechanical) - Volume of the working room: 100-1000 m3 - Regular cleaning of work area (daily): Yes - Regular inspection and maintenance (at least monthly): Yes - Presence of secondary emission sources (worst-case assumptions); Other workers using the same substance simultaneously: Yes A period of evaporation, drying or curing after the activity (with prolonged emission of vapours): Yes The concentration during the task due to the activity undertaken is estimated to be 7.95 mg/m3, resulting in an exposure concentration of 0.795 mg/m3 due to the use of respiratory protection with an effectiveness of 90%. As the task is performed for 8 hours, the daily average concentration equals the task concentration. In accordance with the ECHA Guidance (Chapter R.14), this estimated concentration is therefore considered to be the short-term as well as the long-term inhalation exposure estimate (90th percentiles).

#### Stoffenmanager 8:

Explanation: Inhalation exposure concentration estimated using Stoffenmanager® (version 8)

- Activity/type of task: Handling of liquids on large surfaces or large work pieces
- Distance to task: In the breathing zone of the worker (distance head-product < 1 m) (worst-case assumption)
- Local controls: No control measures at the source
- Ventilation working room: General ventilation (mechanical)
- Volume of the working room: 100-1000 m3
- Regular cleaning of work area (daily): Yes
- Regular inspection and maintenance (at least monthly): Yes
- Presence of secondary emission sources (worst-case assumptions);
- Other workers using the same substance simultaneously: Yes

A period of evaporation, drying or curing after the activity (with prolonged emission of vapours): Yes

The concentration that can be inhaled by the worker during the task due to the activity undertaken is obtained. As the task is performed for 8 hours, the daily average concentration equals the task concentration. In accordance with the ECHA Guidance (Chapter R.14), this estimated concentration is therefore considered to be the short-term as well as the long-term inhalation exposure estimate (90th percentiles).

#### ECETOC TRA Workers 3.1:

Explanation: As solid is used as value for CSA, while liquid is used, it is considered appropriate to refine the exposure estimates, using the standalone version of TRA Workers (v3.1). The vapour pressure at operating temperature (40°C) used for the calculation is 3.71E-8 Pa (as calculated by Chesar).

Stoffenmanager 8:

Explanation: Inhalation exposure concentration estimated using Stoffenmanager® (version 8)

- Activity/type of task: Handling of liquids using low pressure, low speed or on medium-sized surfaces
- Distance to task: In the breathing zone of the worker (distance head-product < 1 m) (worst-case assumption)
- Local controls: No control measures at the source



- Ventilation working room: General ventilation (mechanical)
- Volume of the working room: 100-1000 m3
- Regular cleaning of work area (daily): Yes
- Regular inspection and maintenance (at least monthly): Yes
- Presence of secondary emission sources (worst-case assumptions);
- Other workers using the same substance simultaneously: Yes

A period of evaporation, drying or curing after the activity (with prolonged emission of vapours): Yes

The concentration that can be inhaled by the worker during the task due to the activity undertaken is obtained. As the task is performed for 8 hours, the daily average concentration equals the task concentration. In accordance with the ECHA Guidance (Chapter R.14), this estimated concentration is therefore considered to be the short-term as well as the long-term inhalation exposure estimate (90th percentiles).

ECETOC TRA Workers 3.1:

Explanation: The exposure estimates for PROC 8a are used, as TRA Workers cannot predict exposure for PROC 28 and these estimates can be considered suitable for estimating exposures during manual maintenance.



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Melamină

# 7. Exposure Scenario 7: Widespread use by professional workers - Use as additive in intumescent coatings

SECTION 1: Title of exposure scenario			
		Widespread use by professional workers - Use as additiv	e in intumescent coatings
Contributing	g scenario controllin	ng environmental exposure	
CS1 Use	as additive in intum	escent coatings	ERC5
Contributing	g scenario controllin	ng worker exposure	
CS2 Mix	ing or blending in b	atch processes	PROC5
	nsfer of substance or lities	mixture (charging and discharging) at non-dedicated	PROC8a
CS4 Trar	nsfer of substance or	mixture (charging and discharging) at dedicated facilities	PROC8b
	nsfer of substance or uding weighing)	mixture into small containers (dedicated filling line,	PROC9
CS6 Roll	ler application or bru	ishing	PROC10
Non	industrial spraying		PROC11
CS7 Trea	atment of articles by	dipping and pouring	PROC13
CS8 Han	d-mixing with intim	ate contact and only PPE available	PROC19
CS9 Mar	ual maintenance (cl	eaning and repair) of machinery	PROC28
Subsequent s	ervice life exposur	e scenario(s):	
ES10 Serv	vice life (professiona	l worker) - Intumescent coatings - Professional Workers	
ES12 Serv	vice life (consumers)	- Intumescent coating – Consumers	
SECTION 2:	:	Conditions of use	
2.1		Contributing scenario controlling environmental exposu 7.1 Use as additive in intumescent coatings (ERC 8c, ERC 8	
Amount used	l, frequency and du	uration of use (or from service life)	
Daily local w	idespread use amour	nt: not relevant for the assessment as scenario specific releases	s are estimated
Conditions an	nd measures related t	o biological sewage treatment plant	
Discharge rate	e of STP: >= 2E3 m	veness, Water: 0.169%] 3/day agricultural soil: Yes	
		ons affecting environmental exposure	
8	face water flow: >=		
2.2	lace water now. >=	Contributing scenario controlling worker exposure:	
<i>L</i> . <i>L</i>		7.2 Mixing or blending in batch processes (PROC 5)	
Product char	acteristics		
		mixture/article: <= 100 % : Solid (medium dusty form)	
Frequency a	nd duration of use		
Duration of a	ctivity: <= 8 h/day		
Technical co	nditions and measu	res to control dispersion from source towards the worker	
Occupational	Health and Safety N	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalat Management System: Basic fectiveness, Inhalation: 0%, Dermal: 0%]	ion: 0%]
Conditions a	nd measures relate	d to personal protection, hygiene and health evaluation	
Dermal protect		tiveness, Inhalation: 0%] ly resistant gloves conforming to EN374) and (other) appropr	iate dermal protection



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Place of use: Indoor	
Operating temperature: <= 40 °C	
2.3	<b>Contributing scenario controlling worker exposure:</b> 7.3 Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC 8a)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	res to control dispersion from source towards the worker
General ventilation: Basic general Occupational Health and Safety M	ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effec Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] ly resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational condition	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.4	<b>Contributing scenario controlling worker exposure:</b> 7.4 Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC 8b)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	res to control dispersion from source towards the worker
Occupational Health and Safety M	ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Ianagement System: Basic fectiveness, Inhalation: 0%, Dermal: 0%]
Conditions and measures relate	d to personal protection, hygiene and health evaluation
Respiratory protection: No [Effec Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] ly resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational condition	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.5	<b>Contributing scenario controlling worker exposure:</b> 7.5 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC 9)
Product characteristics	
Percentage (w/w) of substance in Physical form of the used product	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and measu	res to control dispersion from source towards the worker
General ventilation: Basic general	ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]



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Occupational Health and Safety N Local exhaust ventilation: No [Ef	Aanagement System: Basic fectiveness, Inhalation: 0%, Dermal: 0%]		
Conditions and measures relate	d to personal protection, hygiene and health evaluation		
Respiratory protection: No [Effec Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] ly resistant gloves conforming to EN374) and (other) appropriate dermal protection		
Other given operational conditi	ons affecting workers exposure		
Place of use: Indoor Operating temperature: <= 40 °C			
2.6	<b>Contributing scenario controlling worker exposure:</b> 7.6 Roller application or brushing (PROC 10)		
Product characteristics			
Percentage (w/w) of substance in Physical form of the used product			
Frequency and duration of use			
Duration of activity: <= 8 h/day			
Technical conditions and measu	res to control dispersion from source towards the worker		
Ventilation working room: Gener Occupational Health and Safety M Local exhaust ventilation: No [Ef			
Conditions and measures relate	d to personal protection, hygiene and health evaluation		
Respiratory protection: No [Effec Dermal protection: Yes(Chemical [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] ly resistant gloves conforming to EN374) and (other) appropriate dermal protection		
Other given operational conditi	ons affecting workers exposure		
Place of use: Indoor Operating temperature: <= 40 °C			
2.7	Contributing scenario controlling worker exposure: 7.7 Non industrial spraying (PROC 11)		
Product characteristics			
Percentage (w/w) of substance in Physical form of the used product			
Frequency and duration of use			
Duration of activity: <= 8 h/day			
Technical conditions and measu	res to control dispersion from source towards the worker		
Ventilation working room: Gener Occupational Health and Safety M Local exhaust ventilation: No [Ef			
Conditions and measures relate	d to personal protection, hygiene and health evaluation		
	birator with APF of 20) [Effectiveness, Inhalation: 95%] Ily resistant gloves conforming to EN374 with basic employee training) and (other) fectiveness, Dermal: 90%]		
Other given operational conditi	ons affecting workers exposure		
Place of use: Indoor Operating temperature: <= 40 °C			
2.8	Contributing scenario controlling worker exposure: 7.8 Treatment of articles by dipping and pouring (PROC 13)		
Product characteristics			
Percentage (w/w) of substance in Physical form of the used product			



#### Frequency and duration of use

Duration of activity: <= 8 h/day

#### Technical conditions and measures to control dispersion from source towards the worker

General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Basic

Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]

#### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection: No [Effectiveness, Inhalation: 0%]

Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection [Effectiveness, Dermal: 80%]

#### Other given operational conditions affecting workers exposure

Place of use: Indoor

Operating temperature:  $\langle = 40 \ ^{\circ}C \rangle$ 

2.9

**Contributing scenario controlling worker exposure:** 7.9 Manual maintenance (cleaning and repair) of machinery (PROC 28)

### 7.9 Manual maintenance (cleaning and repair) of mach

#### **Product characteristics**

Percentage (w/w) of substance in mixture/article: <= 30 %

Physical form of the used product: Liquid

### Frequency and duration of use

Duration of activity: <= 8 h/day

#### Technical conditions and measures to control dispersion from source towards the worker

General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Occupational Health and Safety Management System: Basic

Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]

#### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection: No [Effectiveness, Inhalation: 0%] Dermal protection: Yes(Chemically resistant gloves conforming to EN374) and (other) appropriate dermal protection [Effectiveness, Dermal: 80%]

#### Other given operational conditions affecting workers exposure

Place of use: Indoor

Operating temperature: <= 40  $^{\circ}C$ 

SECTION 3:	7.10 Exposure estimation				
3.1. Environment					
Release	Release estin	mation method Explanati		ions	
Water	Estimated rel	lease rate	Local rele	ease rate: 0 kg/day	
Air	Estimated rel	lease rate	Local rele	ease rate: 0 kg/day	
Non-Agricultural Soil	Estimated rel	lease factor	Release fa	actor after on-site RMM: 0%	
Protection target		Exposure concentration		Risk quantification (RCR)	
Fresh water		Local PEC: 5.0E-3 mg/l		0.01	
Sedimentation (Fresh water)	Sedimentation (Fresh water)		Local PEC: 0.025 mg/kg dw		
Marine water		Local PEC: 5.0E-4 mg/l		0.01	
Sedimentation (Marine water)		Local PEC: 2.4E-3 mg/kg	g dw	0.01	
Sewage Treatment Plant		Local PEC: 0 mg/l		< 0.01	
Agricultural soil		Local PEC: 2.52E-12 mg/kg dw		< 0.01	
Man via Environment - Inhalation (Systemic effects)		Concentration in air: 1.62E-21 mg/m <sup>3</sup>		< 0.01	
Man via Environment - Oral		Exposure via food consun 1.74E-4 mg/kgbw/day	nption:	< 0.01	



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Man via Environment – Combined routes		< 0.01
3.2. Worker		
Contributing scenario controlling worker exp	osure:Mixing or blending in batch proc	esses (PROC 5)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
<b>Contributing scenario controlling worker exp</b> non-dedicated facilities (PROC 8a)	osure: Transfer of substance or mixture	(charging and discharging) at
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.525 mg/m <sup>3</sup>	0.063
Inhalation, Systemic effects, Acute	0.525 mg/m <sup>3</sup>	< 0.01
Dermal, Systemic effects, Long Term	2.743 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.296
<b>Contributing scenario controlling worker exp</b> dedicated facilities (PROC 8b)	osure:Transfer of substance or mixture	(charging and discharging) at non
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kgbw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
<b>Contributing scenario controlling worker exp</b> filling line, including weighing) (PROC 9)	osure:Transfer of substance or mixture	into small containers (dedicated
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kgbw/day	0.116
Combined routes, Systemic effects, Long Term		0.719
Contributing scenario controlling worker exp	osure:Roller application or brushing (P	ROC 10)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	3.61 mg/m <sup>3</sup>	0.435
Inhalation, Systemic effects, Acute	3.61 mg/m <sup>3</sup>	0.044
Dermal, Systemic effects, Long Term	5.486 mg/kgbw/day	0.465
Combined routes, Systemic effects, Long Term		0.9
Contributing scenario controlling worker exp	osure:Non industrial spraying (PROC 1	1)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.398 mg/m <sup>3</sup>	0.048
Inhalation, Systemic effects, Acute	0.398 mg/m <sup>3</sup>	< 0.01
Dermal, Systemic effects, Long Term	10.71 mg/kgbw/day	0.908
Combined routes, Systemic effects, Long Term		0.956
Contributing scenario controlling worker exp	osure: Treatment of articles by dipping a	and pouring (PROC 13)
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)



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Inhalation, Systemic effects, Ac		0.525 mg/m <sup>3</sup>	< 0.01
Dermal, Systemic effects, Long	Term	2.743 mg/kgbw/day	0.232
Combined routes, Systemic effe	cts, Long Term		0.296
Contributing scenario controll	ng worker exposu	re:Manual maintenance (cleaning a	nd repair) of machinery (PROC 28)
Exposure route		Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Los	ng Term	0.525 mg/m <sup>3</sup>	0.063
Inhalation, Systemic effects, Ac	ite	0.525 mg/m <sup>3</sup>	< 0.01
Dermal, Systemic effects, Long	Term	2.743 mg/kgbw/day	0.232
Combined routes, Systemic effe	cts, Long Term		0.296
SECTION 4:	7.11 Guidanc the ES	e to DU to evaluate whether he wo	rks inside the boundaries set by
<ul> <li>Activity/type of task: Handling</li> <li>Distance to task: In the breathin</li> <li>Local controls: No control mea</li> <li>Ventilation working room: Ger</li> <li>Volume of the working room: 1</li> <li>Regular cleaning of work area</li> <li>Regular inspection and mainter</li> <li>Presence of secondary emission</li> <li>Other workers using the same su</li> <li>A period of evaporation, drying of</li> </ul>	of liquids on large g zone of the work sures at the source eral ventilation (mo 00-1000 m3 daily): No ance (at least mont sources (worst-ca bstance simultaneo or curing after the a	ter (distance head-product < 1 m) (w echanical) thly): No se assumptions); usly: Yes activity (with prolonged emission of	orst-case assumption) vapours): Yes
performed for 8 hours, the daily	average concentrati	during the task due to the activity us on equals the task concentration. In a ion is therefore considered to be the	accordance with the ECHA
<ul> <li>Activity/type of task: Handling</li> <li>Distance to task: In the breathin</li> <li>Local controls: No control mea</li> <li>Ventilation working room: Ger</li> <li>Volume of the working room: 1</li> <li>Regular cleaning of work area</li> <li>Regular inspection and mainter</li> <li>Presence of secondary emission</li> <li>Other workers using the same su</li> <li>A period of evaporation, drying</li> <li>The concentration during the task</li> <li>concentration of 0.398 mg/m3 data</li> </ul>	of liquids at high p ag zone of the work sures at the source eral ventilation (me 00-1000 m3 daily): No ance (at least mont sources (worst-ca botance simultaneo or curing after the a c due to the activity te to the use of resp task concentration	thly): No se assumptions);	ration of mist or spray/haze orst-case assumption) vapours): Yes mg/m3, resulting in an exposure formed for 8 hours, the daily ance (Chapter R.14), this estimated
		are used, as TRA Workers cannot pro ating exposures during manual main	

these estimates can be considered suitable for estimating exposures during manual maintenance. The exposure estimates are calculated for using a liquid, with the standalone version of TRA Workers (v3.1). The vapour pressure at operating temperature ( $40^{\circ}$ C) used for the calculation is 3.71E-8 Pa (as calculated by Chesar).



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Melamină

### 8. Exposure Scenario 8: Service life (worker at industrial site) - PU foams - Workers (industrial)

8. SECTI	•	Service life (worker at industrial site) - PU foams - Worker Title of exposure scenario	(industrial)						
		Service life (worker at industrial site) - PU foams - Workers (industrial)							
Contrib	Contributing scenario controlling environmental exposure								
CS1	CS1 PU foams - Workers (industrial) ERC12a								
Contrib	Contributing scenario controlling worker exposure								
CS2	Low energy manipulation of substances bound in materials and/or articles PROC21								
CS3	High (mechanical) energ	gy work-up of substances bound in materials and/or articles	PROC24						
Exposu	re scenario(s) of the uses	leading to the inclusion of the substance into the article(s):							
ES5	Use at industrial sites - U	Use as additive in foams							
SECTI	ON 2:	Conditions of use							
2.1		<b>Contributing scenario controlling environmental exposure</b> 8.1 PU foams - Workers (industrial) (ERC 12a)	e:						
Amoun	t used, frequency and du	ration of use (or from service life)							
		vant for the assessment as scenario specific releases are estimat evant for the assessment as scenario specific releases are estim							
Conditio	ons and measures related t	o biological sewage treatment plant							
Dischar	cal STP: Standard [Effecti ge rate of STP: >= 2E3 m tion of the STP sludge on	3/day							
Other g	given operational condition	ons affecting environmental exposure							
Receiving	ng surface water flow: >=	1.8E4 m3/day							
2.2		<b>Contributing scenario controlling worker exposure:</b> 8.2 Low energy manipulation of substances bound in materia (PROC 21)	ls and/or articles						
Produc	t characteristics								
		mixture/article: <= 100 % : Solid (medium dusty form)							
Freque	ncy and duration of use								
Duration	n of activity: <= 8 h/day								
Technic	cal conditions and measu	res to control dispersion from source towards the worker							
Occupat	tional Health and Safety M	ventilation (1-3 air changes per hour) [Effectiveness, Inhalation Ianagement System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]	on: 0%]						
Conditi	ions and measures relate	d to personal protection, hygiene and health evaluation							
Respirat	tory protection: No [Effec protection: No [Effective	tiveness, Inhalation: 0%]							
Other g	given operational condition	ons affecting workers exposure							
	Place of use: Indoor Operating temperature: <= 40 °C								
2.3		<b>Contributing scenario controlling worker exposure:</b> 8.3 High (mechanical) energy work-up of substances bound in materials and/or articles (PROC 24)							
Produc	t characteristics								
		mixture/article: <= 100 % : Solid (medium dusty form)							
Freque	ncy and duration of use								
Duratio	n of activity: <= 8 h/day								



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mal: 0%]  mai: 0	
e bod Explanations Local release rate: 0 kg/day Local release rate: 0 kg/day	
tod Explanations Local release rate: 0 kg/day Local release rate: 0 kg/day	
Local release rate: 0 kg/day Local release rate: 0 kg/day	
Local release rate: 0 kg/day Local release rate: 0 kg/day	
Local release rate: 0 kg/day Local release rate: 0 kg/day	
Local release rate: 0 kg/day Local release rate: 0 kg/day	
Local release rate: 0 kg/day	
Release factor after on-site RMM	
	(RCR)
concentration Risk quantification	(ICII)
C: 5.0E-3 mg/l 0.01	
C: 0.025 mg/kg dw 0.01	
C: 5.0E-4 mg/l 0.01	
C: 2.4E-3 mg/kg dw 0.01	
C: 0 mg/l < 0.01	
C: 2.52E-12 mg/kg dw < 0.01	
tion in air: ng/m <sup>3</sup> < 0.01	
via food consumption: < 0.01 g/kgbw/day	
< 0.01	
blending in batch processes (PROC 5)	
estimate -Worker Risk quantification	(RCR)
INSK quantification	
0.361	
0.361	
0.361 0.146	
0.361 0.146 gbw/day 0.24 0.601	;) at
0.361 0.146 gbw/day 0.24 0.601 of substance or mixture (charging and discharging	
0.361 0.146 gbw/day 0.24 0.601 of substance or mixture (charging and discharging	
0.361       0.146       gbw/day     0.24       0.601       of substance or mixture (charging and discharging       estimate -Worker     Risk quantification	
0.361       0.146       gbw/day     0.24       0.601       of substance or mixture (charging and discharging	
0.361       0.146       gbw/day     0.24       0.601       of substance or mixture (charging and discharging       estimate -Worker     Risk quantification       0.12     0.049	
1 <sup>3</sup> m <sup>3</sup> g/kg	



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Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling could be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use, additional RMMs or a site-specific chemical safety assessment is required.



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SPECTION I:         Title of exposure scenario           Service lift (worker at industrial site) - Intumescent coatings - Workers (industrial CSI)         Intumescent coatings - Workers (industrial)         ERC12a           Contributing scenario controlling worker exposure         ERC12a         ERC12a           Contributing scenario controlling worker exposure         PROC21         PROC21           CS3         High (mechanical) energy work-up of substances bound in materials and/or articles         PROC24           Exposure scenario(s) of the uses leading to the inclusion of the substance into the article(s):         PROC24           Exposure scenario(s) of the uses leading to the inclusion of the substance into the article(s):         PROC24           SECTION 2:         Conditions of use         Contributing scenario controlling environmental exposure: 9.1 Intumescent coatings. Workers (industrial) (ERC 12a)           Annual use anount at site: not relevant for the assessment as scenario specific releases are estimated         Annual use anount at site: not relevant for the assessment as scenario specific releases are estimated           Conditions and measures related to biological sewage treatment plant         Biological STP: Standard [Effectiveness, Mater: 0.169%]           Discharge rate of STP: >= 218 m3/day         Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles           Product characteristics         Condributing scenario controlling worker exposure: 9.2 Low energy	SECTIO		Service life (worker at industrial site) - Intumescent coatings Title of exposure scenario			
Contributing scenario controlling environmental exposure       ERC12a         Contributing scenario controlling worker exposure       ERC12a         CS2       Low energy manipulation of substances bound in materials and/or articles       PROC21         CS3       High (mechanical) energy work-up of substances bound in materials and/or articles       PROC24         Exposure scenario(s) of the uses leading to the inclusion of the substance into the article(s):       ESC         ES6       Use at industrial sites - Use as additive in intumescent coatings       StectTON 2:         Contributing scenario controlling environmental exposure:       9.1 Intumescent coatings - Workers (industrial) (ERC 12a)         Announ used, frequency and duration of use (or from service life)       Daily use amount at site: not relevant for the assessment as scenario specific releases are estimated         Contributing scenario controlling environmental exposure:       9.1 Intumescent coatings - Workers (industrial)         Dislarge rate of STP: >= 218 and/add [Effectiveness, Water 0.169%]       Dislarge rate of STP: >= 218 and/add [Effectiveness, Water 0.169%]         Discharge rate of STP: >= 218 and/add [Effectiveness, material controlling worker exposure:       9.2.1 ow energy manipulation of substances bound in materials and/or articles (PROC 21)         Poteut characteristics       Contributing scenario controlling worker exposure:       9.2.1 ow energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristi	SECIN	)N 1;				
CS1       Intumescent coatings - Workers (industrial)       ERC12a         Contributing scenario controlling worker exposure       PROC21         CS3       High (mechanical) energy work-up of substances bound in materials and/or articles       PROC24         Exposure scenario(s) of the uses leading to the inclusion of the substance into the article(s):       ES5         Use at industrial sites - Use as additive in intumescent coatings       PROC24         SECTION 2:       Contributing scenario controlling environmental exposure:       9.1 Intumescent coatings - Workers (industrial) (IRC 12a)         Annount used, frequency and duration of use (or from service life)       Daily use amount at site: not relevant for the assessment as scenario specific releases are estimated         Contributing scenario controlling environmental exposure:       9.1 Intumescent, SWART: 0.169%]         Discharge ratio of STP: >= 218 md/aq       Ma/aq         Contributing scenario controlling worker exposure:       9.2 Low energy manipulation of substances bound in materials and/or articles         Dysea and the size of previous particular science of the substance bound in materials and/or articles       Product characteristics         Product characteristics       Contributing scenario controlling worker exposure:       9.2 Low energy manipulation of substances bound in materials and/or articles         Product characteristics       Product characteristics       Product characteristice       Product characteristics <th><u>a</u></th> <th></th> <th></th> <th>gs - vvorkers (industrial)</th>	<u>a</u>			gs - vvorkers (industrial)		
Contributing scenario controlling worker exposure         PROC21           CS3         Low energy manipulation of substances bound in materials and/or articles         PROC24           Exposure scenario(s) of the uses leading to the inclusion of the substance into the article(s):         ES5           ES6         Use at industrial sites - Use as additive in intumescent coatings         SECTION 2:           Contributing scenario controlling environmental exposure: 9.1 Intumescent coatings - Workers (industrial) (ERC 12a)         Amount used, frequency and duration of use (or from service life)           Daily use amount at site: not relevant for the assessment as scenario specific releases are estimated Annual use amount at site: not relevant for the assessment as scenario specific releases are estimated         Conditions and measures related to biological sewage treatment plant           Biological STP: Standard [Effectiveness, Water: 0.169%]         Discharge rate of STP: >> 213 m3/day         Application of the STP sludge on agricultural soil: Yes           Other yies operational conditions affecting environmental exposure: 9.1 Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)           Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 % (PROC 21)           Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 % (PROC 21)           Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 % (PROC 21)		_				
C82         Low energy manipulation of substances bound in materials and/or articles         PROC21           C83         High (mechanical) energy work-up of substances bound in materials and/or articles         PROC24           Exposure scenario(s) of the uses leading to the inclusion of the substance into the article(s):         Exposure scenario(s) of the uses leading to the inclusion of the substance into the article(s):           ES6         Use at industrial sites - Use as additive in intumescent coatings         Exection (Section (Sectio				ERC12a		
CS3       High (mechanical) energy work-up of substances bound in materials and/or articles       PROC24         Exposure scenario(s) of the uses leading to the inclusion of the substance into the article(s):       ES6       Use at industrial sites - Use as additive in intumescent coatings       SUE         SECTION 2:       Conditions of use       Contributing scenario controlling environmental exposure: 9.1 Intumescent coatings. Workers (industrial) (ERC 12a)       Amount used, frequency and duration of use (or from service life)         Daily use amount at site: not relevant for the assessment as scenario specific releases are estimated       Annual use amount at site: not relevant for the assessment as scenario specific releases are estimated         Conditions and measures related to biological sewage treatment plant       Biological STP: Standard [Effectiveness, Water: 0.169%]         Discharge rate of STP: >= 128 m3/day       Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristics       Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristics       Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form)         Frequency and duration of use (PROC 21)       Effectiveness, Inhalation: 0% ]         Coal exhaust ventilation: No [Effectiveness, Inhalation: 0% ]       Contributing scenario control dispersion from source towards the w	Contrib	uting scenario controlli	ng worker exposure	ſ		
Exposure scenario(s) of the uses leading to the inclusion of the substance into the article(s):         ES6       Use at industrial sites - Use as additive in intumescent coatings         SECTION 2:       Conditions of use         2.1       Contributing scenario controlling environmental exposure: 9.1 Intumescent coatings - Workers (industrial) (ERC 12a)         Amount used, frequency and duration of use (or from service life)         Daily use amount at site: not relevant for the assessment as scenario specific releases are estimated         Conditions and measures related to biological sewage treatment plant         Biological STP: Standard [Effectiveness, Water: 0.169%]         Discharge rate of STP: >> 2E3 m3/day         Application of the STP sludge on agricultural soil: Yes         Other given operational conditions affecting environmental exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristics         Percentage (ww) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form)         Frequency and duration of use         Duration of activity: <= 8 h/day	CS2	Low energy manipulation	on of substances bound in materials and/or articles	PROC21		
ES6       Use at industrial sites - Use as additive in intumescent coatings         SECTION 2:       Conditions of use         2.1       Contributing scenario controlling environmental exposure: 9.1 Intumescent coatings - Workers (industrial) (ERC 12a)         Amount used, frequency and duration of use (or from service life)         Daily use amount at site: not relevant for the assessment as scenario specific releases are estimated         Conditions and measures related to biological sewage treatment plant         Biological STP: Standard [Effectiveness, Water: 0.169%]         Discharge rate of STP: >= 2E3 m3/day         Application of the STP sludge on agricultural soil: Yes         Other given operational conditions affecting environmental exposure         Receiving surface water flow: >= 1.8E4 m3/day         2.2       Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 %	CS3	High (mechanical) energy	gy work-up of substances bound in materials and/or articles	PROC24		
SECTION 2:         Conditions of use           2.1         Contributing scenario controlling environmental exposure: 9.1 Inturescent coatings - Workers (industrial) (ERC 12a)           Amount used, frequency and duration of use (or from service life)         Daily use amount at site: not relevant for the assessment as scenario specific releases are estimated           Conditions and measures related to biological sewage treatment plant         Biological STP: Standard [Effectiveness, Water: 0.169%]           Discharge rate of STP: >= 2.53 m3/day         Application of the STP sludge on agricultural soil: Yes           Other given operational conditions affecting environmental exposure         Receiving surface water flow: >= 1.8E4 m3/day           2.2         Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)           Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 %	Exposu	re scenario(s) of the uses	leading to the inclusion of the substance into the article(s):			
2.1       Contributing scenario controlling environmental exposure: 9.1 Inturescent coatings - Workers (industrial) (ERC 12a)         Amount used, frequency and duration of use (or from service life)         Daily use amount at site: not relevant for the assessment as scenario specific releases are estimated         Annual use amount at site: not relevant for the assessment as scenario specific releases are estimated         Conditions and measures related to biological sewage treatment plant         Biological STP: Standard [Effectiveness, Water: 0.169%]         Discharge rate of STP : >= 25 m3/day         Application of the STP sludge on agricultural soil: Yes         Other given operational conditions affecting environmental exposure         Receiving surface water flow: >= 1.8E4 m3/day         2.2       Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form)         Frequency and duration of use         Duration of activity: <= 8 h/day	ES6	Use at industrial sites -	Use as additive in intumescent coatings			
9.1 Intumescent coatings - Workers' (industrial) (ERC 12a)         Amount used, frequency and duration of use (or from service life)         Daily use amount at site: not relevant for the assessment as scenario specific releases are estimated         Annual use amount at site: not relevant for the assessment as scenario specific releases are estimated         Conditions and measures related to biological sewage treatment plant         Biological STP: Standard [Effectiveness, Water: 0.169%]         Discharge rate of STP: >= 2E3 m3/day         Application of the STP sludge on agricultral soil: Yes         Other given operational conditions affecting environmental exposure         Receiving surface water flow: >= 1.8E4 m3/day         2.2       Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles 9.2 Low energy manipulation of substances bound in materials and/or articles 9.2 Low energy manipulation of substances bound in materials and/or articles 9.2 Low energy manipulation of substances bound in materials and/or articles 9.2 Low energy manipulation of substances bound in materials and/or articles 9.2 Low energy manipulation of substances bound in materials and/or articles 9.2 Low energy manipulation of substances bound in materials and/or articles 9.2 Low energy manipulation of substances bound in materials and/or articles 9.2 Low energy manipulation of substances bound in materials and/or articles 10 Conditions and measures related to personal protection. Noglene and health evaluation (%]         Contributing scenario control dispersion from source towards the worker         General ventilati	SECTIO	ON 2:	Conditions of use			
Daily use amount at site: not relevant for the assessment as scenario specific releases are estimated         Annual use amount at site: not relevant for the assessment as scenario specific releases are estimated         Conditions and measures related to biological sewage treatment plant         Biological STP: Standard [Effectiveness, Water: 0.169%]         Discharge rate of STP: >= 2E3 m3/day         Application of the STP sludge on agricultural soil: Yes         Other given operational conditions affecting environmental exposure         Receiving surface water flow: >= 1.8E4 m3/day         2.2       Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 %	2.1		<b>Contributing scenario controlling environmental exposure</b> 9.1 Intumescent coatings - Workers (industrial) (ERC 12a)	:		
Annual use amount at site: not relevant for the assessment as scenario specific releases are estimated         Conditions and measures related to biological sewage treatment plant         Biological STP: Standard [Effectiveness, Water: 0.169%]         Discharge rate of STP: >= 2E3 m3/day         Application of the STP sludge on agricultural soil: Yes         Other given operational conditions         Receiving surface water flow: >= 1.8E4 m3/day         2.2       Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 %	Amount	used, frequency and du	rration of use (or from service life)			
Biological STP: Standard [Effectiveness, Water: 0.169%]         Discharge rate of STP: >= 2E3 m3/day         Application of the STP sludge on agricultural soil: Yes         Other given operational conditions affecting environmental exposure         Receiving surface water flow: >= 1.8E4 m3/day         2.2       Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 %						
Discharge rate of STP: >= 2E3 m3/day         Application of the STP sludge on agricultural soil: Yes         Other given operational conditions affecting environmental exposure         Receiving surface water flow: >= 1.8E4 m3/day         2.2       Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 %	Conditio	ons and measures related t	o biological sewage treatment plant			
Receiving surface water flow: >= 1.8E4 m3/day         2.2       Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form)         Frequency and duration of use         Duration of activity: <= 8 h/day	Discharg	ge rate of STP: >= 2E3 m	3/day			
2.2       Contributing scenario controlling worker exposure:         9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 %	Other g	iven operational conditi	ons affecting environmental exposure			
9.2 Low energy manipulation of substances bound in materials and/or articles (PROC 21)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 %	Receivin	g surface water flow: >=	1.8E4 m3/day			
Percentage (w/w) of substance in mixture/article: <= 100 %	2.2		9.2 Low energy manipulation of substances bound in materials	s and/or articles		
Physical form of the used product: Solid (medium dusty form)         Frequency and duration of use         Duration of activity: <= 8 h/day	Product	characteristics				
Duration of activity: <= 8 h/day						
Technical conditions and measures to control dispersion from source towards the worker         General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Dermal: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	Frequen	cy and duration of use				
Technical conditions and measures to control dispersion from source towards the worker         General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Dermal: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	Duration	n of activity: $\leq 8 \text{ h/day}$				
General ventilation: Basic general ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]         Occupational Health and Safety Management System: Advanced         Local exhaust ventilation: No [Effectiveness, Inhalation: 0%, Dermal: 0%]         Conditions and measures related to personal protection, hygiene and health evaluation         Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Dermal: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C			res to control dispersion from source towards the worker			
Respiratory protection: No [Effectiveness, Inhalation: 0%]         Dermal protection: No [Effectiveness, Dermal: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	General Occupat	ventilation: Basic general ional Health and Safety N	ventilation (1-3 air changes per hour) [Effectiveness, Inhalation Janagement System: Advanced	n: 0%]		
Dermal protection: No [Effectiveness, Dermal: 0%]         Other given operational conditions affecting workers exposure         Place of use: Indoor         Operating temperature: <= 40 °C	Conditio	ons and measures relate	d to personal protection, hygiene and health evaluation			
Place of use: Indoor         Operating temperature: <= 40 °C						
Operating temperature: <= 40 °C	Other g	iven operational conditi	ons affecting workers exposure			
9.3 High (mechanical) energy work-up of substances bound in materials and/or articles (PROC 24)         Product characteristics         Percentage (w/w) of substance in mixture/article: <= 100 %						
Percentage (w/w) of substance in mixture/article: <= 100 % Physical form of the used product: Solid (medium dusty form)	2.3		9.3 High (mechanical) energy work-up of substances bound in	materials and/or articles		
Physical form of the used product: Solid (medium dusty form)	Product	characteristics				
Frequency and duration of use						
	Frequer	ncy and duration of use				



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Technical conditions and measures General ventilation: Basic general ventilation: Basic general ventilation: No Ccupational Health and Safety Mar Local exhaust ventilation: No [Effection of the section	entilation (1-3 ai agement System	r changes per hour) [Effectiv n: Advanced		
Conditions and measures related t	o personal prot	ection, hygiene and health	evaluation	
Respiratory protection: No [Effective Dermal protection: No [Effectivenes		n: 0%]		
Other given operational conditions	affecting work	cers exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
SECTION 3:	9.4 Exposure	estimation		
3.1. Environment				
Release	Release esti	mation method	Explanat	ions
Water	Estimated re	elease rate	Local rele	ease rate: 0 kg/day
Air	Estimated re	elease rate	Local rele	ease rate: 0 kg/day
Non-Agricultural Soil	Estimated re	elease factor	Release fa	actor after on-site RMM: 0%
Protection target		Exposure concentration		Risk quantification (RCR)
Fresh water		Local PEC: 5.0E-3 mg/l		0.01
Sedimentation (Fresh water)		Local PEC: 0.025 mg/kg	dw	0.01
Marine water		Local PEC: 5.0E-4 mg/l		0.01
Sedimentation (Marine water)		Local PEC: 2.4E-3 mg/kg dw		0.01
Sewage Treatment Plant	Local PEC: 0 mg/l		< 0.01	
Agricultural soil	Local PEC: 2.52E-12 mg	'kg dw	< 0.01	
Man via Environment - Inhalati effects)	Concentration in air: 1.62E-21 mg/m <sup>3</sup>		< 0.01	
Man via Environment - Oral	Exposure via food consum 1.74E-4 mg/kgbw/day	nption:	< 0.01	
Man via Environment – Combined re	outes			< 0.01
3.2. Worker				
<b>Contributing scenario controlling</b> articles (PROC 21)	worker exposu	re:Low energy manipulation	n of substan	ces bound in materials and/or
Exposure route		Exposure estimate -Work	ker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	erm	3 mg/m <sup>3</sup>		0.361
Inhalation, Systemic effects, Acute		12 mg/m <sup>3</sup>		0.146
Dermal, Systemic effects, Long Terr	n	2.83 mg/kgbw/day		0.24
Combined routes, Systemic effects,	Long Term			0.601
<b>Contributing scenario controlling</b> materials and/or articles (PROC 24)	worker exposu	re: High (mechanical) energ	y work-up	of substances bound in
Exposure route		Exposure estimate -Wor	ker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	erm	1 mg/m <sup>3</sup>		0.12
Inhalation, Systemic effects, Acute	4 mg/m <sup>3</sup>		0.049	
Dermal, Systemic effects, Long Terr	n	2.83 mg/kgbw/day		0.24
Combined routes, Systemic effects,	Long Term			0.36
SECTION 4:	9.5 Guidance the ES	to DU to evaluate whether	he works i	nside the boundaries set by



managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling could be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use, additional RMMs or a site-specific chemical safety assessment is required.



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	osure Scenario 10:		essional worker) - Intumeso	cent coating	gs - I Tolessional Workers
SECTION 1:		Title of exposure			
			essional worker) - Intumes	cent coatin	gs - Professional Workers
	scenario controllin	-	-		
CS1 Intu	mescent coatings - F	rofessional Worker	rs		ERC10a, ERC11a
Contributing	scenario controllin	ng worker exposur	·e		
CS2 Low	energy manipulation	n of substances bo	und in materials and/or articl	es	PROC21
Exposure sce	nario(s) of the uses	leading to the inc	lusion of the substance into	the article	e(s):
ES6 Use	at industrial sites - U	Jse as additive in in	ntumescent coatings		
ES7 Wid	espread use by profe	essional workers - U	Use as additive in intumescen	nt coatings	
<b>SECTION 2:</b>		Conditions of use	e		
2.1			nario controlling environm coatings - Professional Worl		
Amount used	, frequency and du	ration of use (or f	rom service life)		
Daily local wi	despread use amour	t: not relevant for t	the assessment as scenario sp	ecific relea	ses are estimated
Conditions an	d measures related t	o biological sewage	e treatment plant		
Discharge rate	P: Standard [Effecti e of STP: >= 2E3 m. f the STP sludge on	3/day	-		
	-	-	onmental exposure		
-	face water flow: $\geq =$				
2.2		<del>_</del>	nario controlling worker e	vnosure.	
2.2					aterials and/or articles (PROC
Product char	acteristics				
	/w) of substance in of the used product				
Frequency ar	nd duration of use				
Duration of ac	ctivity: <= 8 h/day				
Technical cor	nditions and measu	res to control disp	ersion from source toward	s the work	er
Occupational	Health and Safety N	lanagement System	r changes per hour) [Effectiv 1: Basic ion: 0%, Dermal: 0%]	eness, Inha	lation: 0%]
Conditions a	nd measures relate	d to personal prot	ection, hygiene and health	evaluation	
	otection: No [Effection: No [Effectiver		: 0%]		
Other given o	operational condition	ons affecting work	ers exposure		
Place of use: I Operating tem	ndoor perature: <= 40 °C				
SECTION 3:		10.3 Exposure	estimation		
3.1. Environn	nent				
Release		Release esti	mation method	Explanat	ions
Water		Estimated re	lease rate		ase rate: 0 kg/day
Air		Estimated re		Local release rate: 0 kg/day	
Non-Agricultu	ıral Soil	Estimated re			actor after on-site RMM: 0%
			Exposure concentration		Risk quantification (RCF
Protection target					



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Sedimentation (Fresh water)	Local PEC: 0.025 mg/kg dw	0.01
Marine water	Local PEC: 5.0E-4 mg/l	0.01
Sedimentation (Marine water)	Local PEC: 2.4E-3 mg/kg dw	0.01
Sewage Treatment Plant	Local PEC: 0 mg/l	< 0.01
Agricultural soil	Local PEC: 2.52E-12 mg/kg dw	< 0.01
Man via Environment - Inhalation (Systemic effects)	Concentration in air: 1.62E-21 mg/m <sup>3</sup>	< 0.01
Man via Environment - Oral	Exposure via food consumption: 1.74E-4 mg/kgbw/day	< 0.01
Man via Environment – Combined routes		< 0.01
3.2. Worker		
<b>Contributing scenario controlling worker expos</b> articles (PROC 21)	sure:Low energy manipulation of substa	ances bound in materials and/or
Exposure route	Exposure estimate -Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m <sup>3</sup>	0.602
Inhalation, Systemic effects, Acute	20 mg/m <sup>3</sup>	0.243
Dermal, Systemic effects, Long Term	2.83 mg/kgbw/day	0.24
Combined routes, Systemic effects, Long Term		0.842
SECTION 4: 10.4 Guidan the ES	ce to DU to evaluate whether he work	s inside the boundaries set by
Where other Risk Management Measures/Operatio		

necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use, additional RMMs or a site-specific chemical safety assessment is required.



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### 11. Exposure Scenario 11: Service life (consumers) - PU foams – Consumers

SECTI	•	1		umers) - PU foams – Consu	mers	
SECH			e of exposure	scenario umers) - PU foams – Const		
Cantal	h				umers	
	buting scenario controllin	ng en	vironmental	exposure		EDCIO EDCII
CS1	PU foams – Consumers					ERC10a, ERC11a
	buting scenario controllin	-				
CS2	Use of articles containin	ig foa	m with encaps	sulated the substance		AC1, AC1a, AC 13, AC 13e
Exposu	ure scenario(s) of the uses	lead	ling to the inc	lusion of the substance into	the article(	s):
ES5	Use at industrial sites - I		0			
SECTI			nditions of use			
2.1				nario controlling environm	ental expos	ure:
		11.1	l PU foams – (	Consumers (ERC 10a, ERC	11a)	
Amoun	nt used, frequency and du	iratio	on of use (or f	rom service life)		
Daily lo	ocal widespread use amour	nt: no	t relevant for t	the assessment as scenario sp	becific release	es are estimated
Conditi	ions and measures related t	o bio	logical sewage	e treatment plant		
	ical STP: Standard [Effecti			59%]		
	rge rate of STP: >= 2E3 mi ation of the STP sludge on			es		
	given operational conditional	-				
	ing surface water flow: >=			onnentui exposure		
2.2			-	nario controlling consume	r evnosure.	
2.2		11.2	2 Use of article			substance (AC1, AC1a, AC
		13,	AC13e)			
	ct characteristics					
	tage (w/w) of substance in			30 % considered to be not relevant		
	re via oral route: Oral expo				IL	
SECTI	ION 3:	1	11.3 Exposure	e estimation		
3.1. En	vironment	_	-			
Release	e		Release estin	mation method	Explanatio	ons
Water			Estimated rel	lease rate	-	se rate: 0 kg/day
Air			Estimated rel	lease rate		se rate: 0 kg/day
	gricultural Soil		Estimated rel			tor after on-site RMM: 0%
	tion target			Exposure concentration		Risk quantification (RCR)
Fresh w	5			Local PEC: 5.0E-3 mg/l		0.01
Sedime	entation (Fresh water)			Local PEC: 0.025 mg/kg	-	
Marine	· ·					0.01
	entation (Marine water)			<u> </u>		0.01
Sewage Treatment Plant					< 0.01	
Agricultural soil			Local PEC: 2.52E-12 mg/		< 0.01	
Man via Environment - Inhalation (Systemic			Concentration in air: 1.62E-21 mg/m <sup>3</sup>	-	< 0.01	
	)		Man via Environment - Oral			
effects)				Exposure via food consum 1.74E-4 mg/kgbw/day	nption:	< 0.01
effects) Man via		d rou	tes		_	< 0.01



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Exposure route		Exposure estimate -Consumer	Risk quantification (RCR)
Inhalation, Systemic effects, Long	Гerm	Negligible (Migration study)	< 0.01
Dermal, Systemic effects, Long Ter	m	0.1484 mg/kg bw/day: for a baby, when using additional sheets for mattress protection and comfort (Migration study)	0.035
		0.06375 mg/kg bw/day: for an adult, when using additional sheets for mattress protection and comfort (Migration study)	0.015
		0.6375 mg/kg bw/day: for an adult, when sleeping directly on the mattress cover (Migration study)	
		1.484 mg/kg bw/day: for a baby, when sleeping directly on the mattress cover (Migration study)	
Oral, Systemic effects, Long Term		Negligible (Migration study)	< 0.01
Combined routes, Systemic effects,	Long Term		0.035 for a baby 0.015 for an adult
SECTION 4:	11.4 Guidance the ES	e to DU to evaluate whether he works	inside the boundaries set by
flexible polyurethane foam blocks mexposure of humans from melamine EUROPUR, as part of their response can be found on the ECHA website. Based on the vapour pressure of the are considered negligible, while pot prolonged contact duration, with a la The migration of melamine into sym typically consists of a PUR foam co of a polyester-polypropylene mattre its depth in order to simulate a perso When the foam was covered, a stand limit of detection (LOD) and LOD/2 bw/day for an adult and 1.484 for a the mattress cover but put additiona	nanufacturers (E used in flexible to the public co substance and si ential dermal exp arge part of the b thetic sweat soal re surrounded w ss cover placed b on sleeping on th dard practice for 2 was used as est baby).Note that I sheets for addit	es, as a non-halogenated flame retardant UROPUR) commissioned a migration st PU foam used in mattresses. The study v onsultation on the CLH report for melant ince mattresses are flat and not mouthed posure is deemed the most relevant route body and the possible effect of sweat as a ced filter papers from these foams was in ith a fabric layer, migration was investig petween the foam and filter paper. The se e mattress and incubated at 40°C for 2 h every mattress with flexible PU foam, th imate for people sleeping directly on the this is a worst-case assessment as usuall ional mattress protection and comfort. W t, the dermal exposure estimates were com-	udy, to evaluate the potential was submitted to ECHA by ine dated November 2019 and , inhalation and oral exposure e of exposure due to the a vehicle. nvestigated.As a mattress ated with and without the use et-up was compressed to 70% of ours. he migration was below the e mattress cover (0.6375 mg/kg y people don't sleep directly of hen refined due to the use of



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### 12. Exposure Scenario 12: Service life (consumers) - Intumescent coating – Consumers

SECTI			of exposure	imers) - Intumescent coati scenario	ng – consu	
52011			-	imers) - Intumescent coati	ng – Consi	imers
Contril	buting scenario controllir				ing comp	
CS1	Intumescent coating – C	-		- <b>F</b>		ERC10a, ERC11a
	buting scenario controllir			e		
CS2	_	-		h encapsulated the substanc	e	AC13
			-	usion of the substance into		
ES6	Use at industrial sites - U	-	-			
ES7				Use as additive in intumescer	nt coatings	
SECTI			itions of use			
2.1		Contri	ibuting scer	nario controlling environm coating – Consumers (ERC		
Amoun	t used, frequency and du	ration	of use (or fi	om service life)		
Daily lo	ocal widespread use amour	nt: not re	elevant for t	he assessment as scenario sp	ecific relea	ses are estimated
Conditi	ons and measures related t	o biolog	gical sewage	treatment plant		
Dischar	cal STP: Standard [Effecti rge rate of STP: >= 2E3 m2 tion of the STP sludge on	3/day				
Other g	given operational condition	ons affe	ecting envir	onmental exposure		
Receivi	ng surface water flow: >=	1.8E4 n	m3/day			
2.2		Contra 12.2 U	<b>ibuting sce</b> Jse of article	nario controlling consumer s with intumescent coating	<b>exposure</b> : with encaps	ulated the substance (AC 13)
Produc	t characteristics					
Exposur Exposur	age (w/w) of substance in a re via inhalation route: Inh re via dermal route: Derma re via oral route: Oral expo	alation al expos	exposure is sure assumed	considered to be not relevan l to be negligible	ıt	
SECTI	ON 3:	12.	3 Exposure	estimation		
3.1. En	vironment					
Release	2	R	Release estir	nation method	Explanat	ions
Water		Е	Estimated rel	ease rate	Local rele	ase rate: 0 kg/day
Air		E	Estimated rel	ease rate	Local rele	ase rate: 0 kg/day
Non-Ag	gricultural Soil	E	Estimated rel	ease factor	Release fa	actor after on-site RMM: 0%
Protect	ion target			Exposure concentration		Risk quantification (RCR)
Fresh w	vater			Local PEC: 5.0E-3 mg/l		0.01
Sedime	ntation (Fresh water)			Local PEC: 0.025 mg/kg dw		0.01
Marine	water			Local PEC: 5.0E-4 mg/l		0.01
Sedime	ntation (Marine water)			Local PEC: 2.4E-3 mg/kg	dw	0.01
Sewage Treatment Plant			Local PEC: 0 mg/l		< 0.01	
Agricul	tural soil			Local PEC: 2.52E-12 mg/	kg dw	< 0.01
Man v effects)	ia Environment - Inhal	(Systemic	Concentration in air: 1.62E-21 mg/m <sup>3</sup>		< 0.01	
Man via	a Environment - Oral			Exposure via food consum 1.74E-4 mg/kgbw/day	nption:	< 0.01
	a Environment – Combined	d routes				< 0.01



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#### **3.2 Consumer**

**Contributing scenario controlling consumer exposure:**Use of articles with intumescent coating with encapsulated the substance (AC 13)

As any (dermal) contact by consumers with these coatings will be incidental and as the substance is embedded in a matrix, inhalation, dermal and oral exposure (and therefore risks) are considered to be negligible.

Ì	SECTION 4:	12.4 Guidance to DU to evaluate whether he works inside the boundaries set by
		the ES

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling could be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use, additional RMMs or a site-specific chemical safety assessment is required.