CONFORMÉMENT AUX RÈGLEMENTS CE 1907/2006 (REACH), 1272/2008 (CLP) et 2015/830

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SECTION 1 : IDENTIFICATION DE LA SUBSTANCE/DU MÉLANGE ET DE LA SOCIÉTÉ/ENTREPRISE

1.1 Identificateur de produit Mélamine Nom du produit Nom chimique 1,3,5-Triazine-2,4,6-triamine Formule chimique $C_3H_6N_6$ 108-78-1 No CAS No CE 203-615-4 No d'enregistrement REACH 01-2119485947-16-0017 1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées Utilisation(s) identifiée(s) La mélamine (C₃H₆N₆) est un produit sous forme de poudre blanche utilisé pour la production d'une large gamme de résines synthétiques. • Formulation ou reconditionnement Utilisation comme intermédiaire pour les résines (mélamine réagie) • ٠ Utilisation comme additif dans les mousses • Utilisation comme additif dans les revêtements intumescents Mousses PU - Travailleurs (industrie) • Revêtements intumescents - Travailleurs (industrie) ٠ • Revêtements intumescents - Travailleurs professionnels Utilisations déconseillées Ajout dans les aliments pour animaux ou les produits alimentaires. 1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité Identification de la société Qatar Melamine Co P.O. Box 50001, Mesaieed, Adresse Oatar. Téléphone +974 - 44228888 Courrier électronique mktg@qafco.com.qa Représentant exclusif d'un fabricant non communautaire Identification de la société MUNTAJAT B.V. Adresse Prinses Margrietplantsoen 78-A 2595 BR, La Haye Pays-Bas Téléphone +31(0)70 219 7000 Courrier électronique REACH@muntajatbv.com Site Web www.muntajatbv.com 1.4 Numéro d'appel d'urgence National Poisons Information Service +44(0)111(Birmingham Centre) Pour les déversements, les fuites, les Aux États-Unis et au Canada : 1-800-424-9300 En dehors des États-Unis et du Canada : +1 703-741-5970 et +1-703-527-3887 incendies, les expositions ou les accidents, appeler CHEMTREC Jour ou (appels en PCV acceptés) Nuit

SECTION 2 : IDENTIFICATION DES DANGERS

2.1 Classification de la substance ou de	u mélange
Règlement (CE) no 1272/2008 (CLP)	Repr. 2:suspecté de nuire à la fertilité
2.2 Éléments d'étiquetage	Conformément au règlement (CE) no 1272/2008 (CLP)
Nom du produit	Mélamine
Pictogramme(s) de danger	GHS08

Mot(s) de signalisation

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3.1 Substances		 (REACH), 1272/2008 Version r H361f : Suspecté de nuire à P201 : Obtenir des instruct P202 : Ne pas manipuler ta lues et comprises. P280 : Porter des gants de p yeux/protection du visage. P308+P313 : En cas d'exponédicaux. P405 : Magasin clos. P501 : Éliminer les content nationale. Peut être nocif en cas d'ing La poussière peut avoir un respiratoires 	a ^o : 8 à la fertilité ions spécial nt que toute protection/c protection/c us conforme estion	les avant d'util es les précauti les vêtements e doute : Obte ément à la légi	iser. ons de séc de protect enir des co slation loc	tion/protection des
Mention(s) de précaution 2.3 Autres dangers 2,4 Informations complé SECTION 3 : COMPOS 3.1 Substances		 P201 : Obtenir des instruct P202 : Ne pas manipuler ta lues et comprises. P280 : Porter des gants de j yeux/protection du visage. P308+P313 : En cas d'exponédicaux. P405 : Magasin clos. P501 : Éliminer les content nationale. Peut être nocif en cas d'ing La poussière peut avoir un 	ions spécial nt que tout protection/c osition ou de us conforme estion	les avant d'util es les précauti des vêtements e doute : Obte ément à la légi	ons de séc de protect enir des co slation loo	tion/protection des
2.3 Autres dangers 2,4 Informations complé <u>SECTION 3 : COMPOS</u> 3.1 Substances		 P202 : Ne pas manipuler ta lues et comprises. P280 : Porter des gants de yeux/protection du visage. P308+P313 : En cas d'exponédicaux. P405 : Magasin clos. P501 : Éliminer les content nationale. Peut être nocif en cas d'ing La poussière peut avoir un 	nt que toute protection/c osition ou de us conforme estion	es les précauti les vêtements e doute : Obte ément à la légi	ons de séc de protect enir des co slation loo	tion/protection des
2,4 Informations complé SECTION 3 : COMPOS 3.1 Substances		La poussière peut avoir un		nt sur la peau,	100 100	
SECTION 3 : COMPOSE 3.1 Substances				_ `	ies yeux e	t les voies
3.1 Substances	ITION/INFO	Aucune.				
		RMATIONS SUR LES CO	OMPOSAN	NTS		
INGRÉDIENT(S) A DANGEREUX	No CAS	No CE	%W/W	Mention(s) d	e danger	Pictogramme(s) de danger
Mélamine 1	108-78-1	203-615-4 01-2119485947-16-0017	≥ 99	Repr. 2 H30	51f	GHS08
3.2 Mélanges		Non applicable.				
SECTION 4 : PREMIER	RS SECOURS	5				
4.1 Description des premiers secoursInhalationSi la respiration est difficile, emmener la victime à l'air frais et la maintenir au repos dans une position confortable pour respirer. Si les symptômes persistent, obtenir des soins médicaux.Contact avec la peauAprès contact avec la peau, laver immédiatement avec beaucoup de savon et d'e Rincer d'abord avec beaucoup d'eau pendant plusieurs minutes (retirer les lentil					tômes persistent, oup de savon et d'eau	
Ingestion		de contact si possible), puis consulter un médecin. En cas d'ingestion, rincer la bouche avec de l'eau (seulement si la personne est consciente).				
4.2 Principaux symptôm	nes et effets, a	igus et retardés La poussière peut avoir un respiratoires	effet irritar	nt sur la peau,	les yeux e	t les voies
4.3 Indication des éventu	iels soins méd	icaux immédiats et traitem En cas d'exposition ou de c				soins médicaux.
SECTION 5 : MESURES	S DE PROTE	CTION INCENDIE				
5.1 Moyens d'extinction Support d'extinction appro Moyens d'extinction inada	-	Extinction avec du dioxydo ou de vaporisation d'eau. Eau avec pulvérisation en o		e, des produits	s chimique	es secs, des mousses
	-	a substance ou du mélange Se décompose dans un inc carbone, dioxyde de carbo lorsqu'elle est chauffée au-	endie dégag ne, oxydes	d'azote. La m		

5.3 Avis aux pompiers Les pompiers devraient porter des vêtements de protection complets, y compris des appareils respiratoires autonomes.

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SECTION 6 : MESURES À PRENDRE EN CAS DE REJET ACCIDENTEL

6.1 Précautions individuelles, équipe	ment de protection et procédures d'urgence Veiller à bien ventiler les lieux. Assurer une protection personnelle adéquate (y compris une protection respiratoire) lors de l'enlèvement des déversements. Éviter la production de poussière. Éviter de respirer de la poussière.				
6.2 Précautions pour la protection de	e l'environnement				
	Ne pas rejeter dans les égouts ou les eaux superficielles/souterraines.				
 6.3 Méthodes et matériel de confinement et de nettoyage Balayer les substances déversées dans des contenants, s'il y a lieu, humidifier d'abord afin d'éviter la poussière. Rassembler soigneusement les restes. Ne pas laver le déversement avec de l'eau, car la zone sera glissante et bouchera les eaux usées. 6.4 Référence à d'autres sections 					
	Voir également la section 8, 13.				
SECTION 7 : MANIPULATION ET STOCKAGE					

7.1 Précautions à prendre pour une manipulation sûre

Obtenir des instructions spéciales avant d'utiliser. Ne pas manipuler tant que toutes les précautions de sécurité n'ont pas été lues et comprises. Assurer une ventilation adéquate. Éviter la production de poussière. Éviter de respirer de la poussière. Porter des gants de protection/des vêtements de protection/protection des yeux/protection du visage. Laver les mains et la peau exposée soigneusement après la manipulation.

7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités

Conserver à l'abri de la lumière directe du soleil. Magasin clos. Stocker à sec.
Garder le conteneur bien fermé.
Ambiante.
Stable dans des conditions normales.
Fortement acide. Agents oxydants forts.

7.3 Utilisation(s) finale(s) spécifique(s)

- Formulation ou reconditionnement
- Utilisation comme intermédiaire pour les résines (mélamine réagie)
 - Utilisation comme additif dans les mousses
 - Utilisation comme additif dans les revêtements intumescents
 - Mousses PU Travailleurs (industrie)
 - Revêtements intumescents Travailleurs (industrie)
 - Revêtements intumescents Travailleurs professionnels

SECTION 8 : CONTRÔLES DE L'EXPOSITION/PROTECTION INDIVIDUELLE

8.1 Paramètres de contrôle

8.1.1 Limites d'exposition

professionnelle

SUBSTANCE	No CAS	LTEL (8 h TWA ppm)	LTEL (8 h TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Mélamine	108-78-1					Aucune affectation

Source: Limites d'exposition sur le lieu de travail au Royaume-Uni EH40/2005 (quatrième édition, publiée en 2020), Royaume-Uni

8.1.2 Valeur limite biologique Non établi.

8.1.3 PNECs et DNELs

DNEL / DMEL	Par voie orale	Inhalation	Cutanée
Industrie - À long terme - Effets locaux			
Industrie - À long terme - Effets systémiques		8.3 mg/m ³	11,8 mg/kg p.c./jour

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Industrie - À court terme - Effets loc	9118				
			82.2 mg/m3	117 mg/kg p g /jour	
Industrie - À court terme - Effets sys Consommateurs - à long terme - effe	ts locaux		82,3 mg/m ³	117 mg/kg p.c./jour	
Consommateurs - à long terme - effet		0.42 mg/kg n c/jour	1,5 mg/m ³	4,2 mg/kg p.c./jour	
Consommateurs - À court terme - Ef		0,42 mg/kg p.e./jour	1,5 mg/m	4,2 mg/kg p.c./jour	
Consommateurs - À court terme - Eff					
systémiques					
Environnement		PNEC			
Compartiment aquatique (y compris les a	sédiments)	Eau douce: 0,51 mg/l			
compartiment aquatique (y compris les	seuments)	Libération intermitten			
		Eau de mer: 0,051 m			
		Eau douce (sédiments) : 2,524 mg/kg p.c.			
		Eau de mer (sédiment	s) : 0,252 mg/kg p.c	•	
Compartiment terrestre		Usine de traitement de	es eaux usées: 200	mg/l	
Compartiment atmosphérique		Sol : 0,206 mg/kg p.c.			
 8.2 Contrôles de l'exposition 8.2.1 Contrôles techniques appropriés 8.2.2 Équipement de protection individuelle 		n ventiler les lieux.			
Protection des yeux	sécurité)	-	nettes de protection	, écran facial ou lunettes de	
Protection de la peau		ints de protection.			
			: se référer aux info	rmations fournies par le	
Équipement de protection respiratoire	producteur d		(doit ôtro na tí -: 1	e la poussière est générée	
Equipement de protection respiratoire	lors de la ma		e doit ette porte si d	e la poussiere est generee	
Risques thermiques	Non applicat				
8.2.3 Contrôles de l'exposition		er dans les égouts ou le	s eaux superficielles	s/souterraines.	
environnementale	- · · · · · · · · · · · · · · · · · · ·				
SECTION 9 : PROPRIÉTÉS PHYSI(DUES ET CH	IMIOUES			
9.1 Informations sur les propriétés phy	ysiques et chi Poudre.	miques essentielles			
Aspect	Couleur : Bla	anc			
Odeur	Inodore	uno.			
Seuil odeur	Non établi.				
pH		tion aqueuse), 20 g/l	@ 20°C		
Point de fusion/point de congélation	354° C (Ne gèle pas, solidifie)				
Point d'ébullition initial et plage d'ébullition	>354°C (Su				
Point Flash	Non applicat	ole.			
Taux d'évaporation	Non applicat				
Inflammabilité (solide, gaz)	Ininflammab				
Limites supérieures/inférieures	Non disponil	ble.			
d'inflammabilité ou d'explosibilité					
Pression de vapeur		8 Pa @ 20°C			
Densité de vapeur	Non applicat				
Densité (g/ml)	1 570 kg/m ³				
Densité relative	1.57			200	
Solubilité(s)	Solubilite (E	au) : Légèrement solu		JU	
	diméthylforn	namide (0,1 g/l), solu			
	diméthylforn -1,22 @ 20	namide (0,1 g/l), solu			
Fempérature d'auto-inflammation	diméthylforn -1,22 @ 20 >500°C	namide (0,1 g/l), solu			
Température d'auto-inflammation Température de décomposition (°C)	diméthylforn -1,22 @ 20 >500°C >354°C	namide (0,1 g/l), solu °C			
Température d'auto-inflammation Température de décomposition (°C) Viscosité	diméthylforr -1,22 @ 20 >500°C >354°C Non applicat	namide (0,1 g/l), solu °C ble.			
Température d'auto-inflammation Température de décomposition (°C) Viscosité Propriétés explosives	diméthylforr -1,22 @ 20 >500°C >354°C Non applicat Non explosit	namide (0,1 g/l), solu °C ble.			
Température d'auto-inflammation Température de décomposition (°C) Viscosité Propriétés explosives	diméthylforr -1,22 @ 20 >500°C >354°C Non applicat	namide (0,1 g/l), solu °C ble.			
Coefficient de partage : (n-octanol/eau) Température d'auto-inflammation Température de décomposition (°C) Viscosité Propriétés explosives Propriétés d'oxydation 9.2 Autres informations	diméthylforr -1,22 @ 20 >500°C >354°C Non applicat Non explosit	namide (0,1 g/l), solu °C ble.		(0,3 g/l), éthanol (0,6 g/l l'éthyle (11,2 g/l) @ 30°C	

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Poids moléculaire	126,12 g/mol	
SECTION 10 : STABILITÉ ET RÉA	CTIVITÉ	
10.1 Réactivité	Stable dans des conditions normales.	
10.2 Stabilité chimique	Stable dans des conditions normales.	
10.3 Possibilité de réactions dangereux	ses Aucune réaction dangereuse connue en cas d'utilisation co	onforme à sa destination
10.4 Conditions à éviter	Conserver à l'abri de l'humidité.	
10.5 Matériaux incompatibles	Fortement acide. Agents oxydants forts.	
10.6 Produits de décomposition dange	reux Aucun produit de décomposition dangereux connu.	
SECTION 11 : INFORMATIONS TO	DXICOLOGIQUES	
 11.1 Informations sur les effets toxicol Toxicité aiguë - Ingestion Toxicité aiguë - Contact avec la peau Toxicité aiguë - Inhalation corrosion/irritation de la peau Lésions oculaires graves/irritation Données de sensibilisation cutanée Données de sensibilisation respiratoire Mutagénicité des cellules germinales Cancérogénicité 	Peut être nocif en cas d'ingestion LD50 (rat): 3161 mg/kg	ing
Toxicité reproductive Lactation STOT - exposition unique STOT - exposition répétée Risque d'aspiration	 LOAEL (oral): 126 mg/kg p.c./jour (chronique, rat, vessie) Des augmentations statistiquement significatives de l'incid cellules de transition et de l'incidence combinée du carcin transition et du papillome dans la vessie urinaire ont été o mâles exposés à 4 500 ppm de mélamine (environ 263 mg lorsqu'ils sont exposés à 2 250 ppm de mélamine. À une e urinaires ont été observés chez des rats mâles atteints de c transitoires. Les rats femelles n'ont pas développé de tume ont été soumises à une exposition pouvant atteindre 9 000 néoplastique liée au traitement n'a été observée chez les so Non démontré pour les humains. Suspecté d'endommager la fertilité chez les rats mâles. NOAEL (oral): 89 mg/kg pc/jour (subchronique, 168 heur Des effets indésirables sur le système reproducteur mâle ce EOGRTS effectué selon le TG 443 de l'OCDE chez des rat décision TPE-D-2114373433-50-01 de l'ECHA. On a obs dégénérescence/atrophie tubulaire dans les testicules avec minimaux apparentés dans l'épididyme chez les mâles F0 et F1. Aucune prévue Non classé. Non classé. Aucun prévu 	 e). dence du carcinome des ome des cellules de bservées chez des rats g/kg p.c./jour), mais pas exception près, des calculs carcinomes à cellules eurs, même lorsqu'elles ppm. Aucune découverte ouris mâles ou femelles.

11.2 Autres informations

La poussière peut avoir un effet irritant sur la peau, les yeux et les voies respiratoires

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SECTION 12 : INFORMATIONS ÉC	COLOGIQUES
12.1 Toxicité	
	Faible toxicité pour les organismes aquatiques.
Aigu Chronique	LC50 (Daphnia magna): 200 mg/l NOEC (tête de méné (Pimephales promelas)): 5,1 mg/l
emonique	NOEC (Daphnia magna): 11 mg/l
Algues	EC50 Eau douce : 325 mg/l
	CSEO Eau douce : 98 mg/l
12.2 Persistance et dégradabilité	
	Cette substance n'est pas facilement biodégradable. Ne devrait pas être
	intrinsèquement biodégradable
12.3 Potentiel de bioaccumulation	
	La substance n'a aucun potentiel de bioaccumulation. Facteur de bioconcentration (FBC) : 3,8 L/kg poids humide
	racion de bioconcentration (rbc) : 5,5 Erkg polds humide
12.4 Mobilité dans le sol	
	On prévoit une mobilité modérée de la substance dans le sol.
12.5 Résultats des évaluations PBT et	
	Non classé comme PBT ou vPvB.
12.6 Autres effets néfastes	
	Inconnu.
SECTION 13 : CONSIDÉRATIONS	RELATIVES À L'ÉLIMINATION
13.1 Méthodes de traitement des déch	nets
	Éliminer de manière sûre les conteneurs vides et les déchets. Récupérer ou recycler si possible.
13.2 Informations complémentaires	
	L'élimination doit être conforme à la législation locale, étatique ou nationale.
SECTION 14 : INFORMATIONS RI	ELATIVES AU TRANSPORT
Non classé comme dangereux pour le	
14.1 Numéro UN	Non ampliashla
	Non applicable.
14.2 Nom d'expédition caractéristiqu	
	Non applicable.
14.3 Classe(s) de danger pour le trans	sport
	Non applicable.
14.4 Groupe d'emballage	
14.4 Groupe a chibanage	Non applicable.
145 December 1	
14.5 Dangers environnementaux	Non classé comme polluant marin.
	-
14.6 Précautions spéciales pour l'util	
	Inconnu
14.7 Transport en vrac conforméme	nt à l'annexe II Marpol et au code CIB Inconnu
SECTION 15 - INFORMATIONS DI	ELATIVES À LA RÉGLEMENTATION

SECTION 15 : INFORMATIONS RELATIVES À LA RÉGLEMENTATION

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15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement

Règlement européen - Autorisations et/ou restrictions d'utilisation Liste candidate des substances Non répertorié extrêmement sensibles pour l'autorisation REACH : ANNEXE XIV Liste des Non répertorié substances soumises à autorisation REACH : Annexe XVII Restrictions à la Non répertorié fabrication, à la mise sur le marché et à l'utilisation de certaines substances, mélanges et articles dangereux Plan d'action communautaire (CoRAP) Non répertorié Règlement (CE) no 850/2004 du Non répertorié Parlement européen et du Conseil relatif aux polluants organiques persistants Règlement (CE) n° 1005/2009 relatif à Non répertorié des substances qui réduisent la couche d'ozone Règlement (UE) no 649/2012 du Non répertorié Parlement européen et du Conseil concernant l'exportation et l'importation de produits chimiques dangereux **Réglementations nationales** État de l'inventaire Répertorié en : Australie, Canada (DSL), Chine, Japon, Corée, Taïwan,

Nouvelle-Zélande (HSNO) - Approbation HSNO : HSR002503, Nouvelle-Zélande (NZIOC), Philippines.

15.2 Évaluation de la sécurité chimique

Une évaluation de la sécurité chimique REACH a été effectuée.

SECTION 16 : AUTRES INFORMATIONS							
Les sections suivantes contiennent des révisions ou de nouvelles 1-16 instructions							
LÉGENDE							
Pictogramme(s) de danger	GHS08						
Classification des dangers	Repr. 2 : Toxicité pour la reproduction, catégorie 2						
Mention(s) de danger	H361f : Suspecté de nuire à la fertilité						
Mention(s) de précaution	 P201 : Obtenir des instructions spéciales avant d'utiliser. P202 : Ne pas manipuler tant que toutes les précautions de sécurité n'ont pas été lues et comprises. P280 : Porter des gants de protection/des vêtements de protection/protection des yeux/protection du visage. P308+P313 : En cas d'exposition ou de doute : Obtenir des conseils et des soins médicaux. P405 : Magasin clos. P501 : Éliminer les contenus conformément à la législation locale, étatique ou nationale. 						
Acronymes	CAS : Chemical Abstracts Service CLP : Règlement (CE) no 1272/2008 relatif à la classification, à l'étiquetage et à l'emballage des substances et des mélanges						

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> DNEL : Niveau d'effet dérivé CE : Communauté européenne LTEL : Limite d'exposition à long terme PBT : Persistant, bioaccumulable et toxique PNEC : Concentration sans effet prédit REACH : Règlement REACH (enregistrement, évaluation, autorisation et restriction des substances chimiques) STEL : Limite d'exposition à court terme STOT : Toxicité spécifique pour l'organe cible vPvB : très persistant et très bioaccumulable

Les informations contenues dans cette publication ou autrement fournies aux Utilisateurs sont considérées comme exactes et sont données de bonne foi, mais il appartient aux Utilisateurs de s'assurer de l'adéquation du produit à leur propre usage.

Qatar Melamine Co ne donne aucune garantie quant à l'aptitude du produit à un usage particulier et toute garantie ou condition implicite (légale ou autre) est exclue, sauf dans la mesure où l'exclusion est empêchée par la loi.

Qatar Melamine Co n'accepte aucune responsabilité pour les pertes ou les dommages (autres que ceux résultant d'un décès ou d'une blessure corporelle causés par un produit défectueux, si cela est démontré), résultant de la confiance accordée à ces informations. La liberté en matière de brevets, de droits d'auteur et de dessins et modèles ne peut être présumée

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	2.3 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes wi equivalent containment conditions (PROC 2)	
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3.	•	
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1. Exposure Scenario 1: Formulation or re-packing - Formulation or re-packaging SECTION 1: Title of exposure scenario						
SECTION I: Inte of exposure scenario Formulation or re-packaging						
C						
	Contributing scenario controlling environmental exposure					
CS1	Formulation or re-packa		ERC2			
	buting scenario controllin					
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 whether the second secon	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		Contributing scenario controlling environmental exposur 1.1 Formulation or re-packaging (ERC 2)	re:			
Amour	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 estim				
Conditi	ons and measures related t	o biological sewage treatment plant				
Dischar	cal STP: Standard [Effecti rge rate of STP: $\geq 2E3$ m	3/day				
	ation of the STP sludge on	0				
		ons affecting environmental exposure				
	ng surface water flow: >=	•				
2.2	2.2 Contributing scenario controlling worker exposure: 1.2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC 2)					
Produc	et 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%]						
Condit	Conditions and measures related to personal protection, hygiene and health evaluation					
Respiratory protection: No [Effectiveness, Inhalation: 0%] Dermal protection: No [Effectiveness, Dermal: 0%]						

1. Exposure Scenario 1: Formulation or re-packing - Formulation or re-packaging

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Other given operational conditi	ons 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 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	ed 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	ares to control dispersion from source towards the worker		
Occupational Health and Safety M	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	ed 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	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 measu	res to control dispersion from source towards the worker		
General ventilation: Basic genera Occupational Health and Safety M	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] 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: 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	Contributing scenario controlling worker exposure: 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	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%] Janagement 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: 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	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: 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			
Physical form of the used product: Solid (medium dusty form)			
Frequency and duration of use			
Duration of activity: <= 8 h/day			
	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: 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			
2.9	Contributing scenario controlling worker exposure: 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		
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: 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	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 [Effec Dermal protection: No [Effective			
2.11	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 %		

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Physical form of the used product: Sol	id (medium du	sty form)		
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 ven Occupational Health and Safety Mana Local exhaust ventilation: No [Effecti	gement System	n: Advanced	veness, Inha	lation: 0%]
Conditions and measures related to	personal prot	ection, hygiene and health	evaluation	
Respiratory protection: No [Effectiver Dermal protection: Yes (Chemically re appropriate dermal protection [Effecti	esistant gloves	conforming to EN374 with	specific act	ivity training) and (other)
Other given operational conditions	affecting work	ers exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
		nario controlling worker ender the second se		nery (PROC 28)
Product characteristics				
Percentage (w/w) of substance in mixt Physical form of the used product: Sol				
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
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 prot	ection, 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 a	affecting work	ters exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
SECTION 3:	1.13 Exposure	e estimation		
3.1. Environment				
Release	Release estin	mation method	Explanat	ions
Water	Estimated re	lease rate	Local release rate: 5 kg/day	
Air	Estimated re	lease rate	Local release rate: 1 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: 0.255 mg/l		0.5
Sedimentation (Fresh water)		Local PEC: 1.26 mg/kg dw		0.5
Marine water		Local PEC: 0.0255 mg/l		0.5
Sedimentation (Marine water)		Local PEC: 0.126 mg/kg dw		0.5
Sewage Treatment Plant		Local PEC: 2.496 mg/l		0.01
Agricultural soil		Local PEC: 0.029 mg/kg	dw	0.14
Man via Environment - Inhalation effects)	n (Systemic	Concentration in air: 7.8E	-5 mg/m ³	< 0.01

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Man via Environment - Oral	Exposure via food consumption: 0.017 mg/kg bw/day	0.04
Man via Environment - Combined routes		0.04
3.2. Worker		
Contributing scenario controlling worker expose occasional controlled exposure or processes with eq		
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.5 mg/m ³	0.06
Inhalation, Systemic effects, Acute	2 mg/m ³	0.024
Dermal, Systemic effects, Long Term	1.37 mg/kg bw/day	0.116
Combined routes, Systemic effects, Long Term		0.176
Contributing scenario controlling worker expose batch processes with occasional controlled exposure		
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m ³	0.12
Inhalation, Systemic effects, Acute	4 mg/m ³	0.049
Dermal, Systemic effects, Long Term	0.69 mg/kg bw/day	0.058
Combined routes, Systemic effects, Long Term		0.179
Contributing scenario controlling worker expose 4)	ure: Chemical production where oppor	tunity for exposure arises (PROC
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kg bw/day	0.116
Combined routes, Systemic effects, Long Term		0.719
Contributing scenario controlling worker expos	ure: Mixing or blending in batch proce	esses (PROC 5)
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kg bw/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 ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
Contributing scenario controlling worker exposed non-dedicated facilities (PROC 8b)	ure: Transfer of substance or mixture (charging and discharging) at
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m ³	0.12
Inhalation, Systemic effects, Acute	4 mg/m ³	0.049
	0	
Dermal, Systemic effects, Long Term	2.742 mg/kg bw/day	0.232

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Exposure route	Exposure estimate - Worker	Risk quantification (RCR)	
Inhalation, Systemic effects, Long Term	5 mg/m ³	0.602	
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243	
Dermal, Systemic effects, Long Term	1.372 mg/kg bw/day	0.116	
Combined routes, Systemic effects, Long Term		0.719	
Contributing scenario controlling worker expo (PROC 14)	sure: Tabletting, compression, extrusio	n, pelletisation, granulation	
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)	
Inhalation, Systemic effects, Long Term	1 mg/m ³	0.12	
Inhalation, Systemic effects, Acute	4 mg/m ³	0.049	
Dermal, Systemic effects, Long Term	3.43 mg/kg bw/day	0.291	
Combined routes, Systemic effects, Long Term		0.411	
Contributing scenario controlling worker expo	sure: Use as laboratory reagent (PROC	(15)	
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)	
Inhalation, Systemic effects, Long Term	0.5 mg/m ³	0.06	
Inhalation, Systemic effects, Acute	2 mg/m ³	0.024	
Dermal, Systemic effects, Long Term	0.34 mg/kg bw/day	0.029	
Combined routes, Systemic effects, Long Term		0.089	
Contributing scenario controlling worker exposite 19)	sure: 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 ³	0.361	
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243	
Dermal, Systemic effects, Long Term	7.072 mg/kg bw/day	0.599	
Combined routes, Systemic effects, Long Term		0.961	
Contributing scenario controlling worker expos	sure: Manual maintenance (cleaning an	d repair) of machinery (PROC 2	
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)	
Inhalation, Systemic effects, Long Term	5 mg/m ³	0.602	
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243	
Dermal, Systemic effects, Long Term	2.742 mg/kg bw/day	0.232	
Combined routes, Systemic effects, Long Term		0.835	
SECTION 4: 1.14 Guidance to DU to e	valuate whether he works inside the b	oundaries set by the ES	

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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Mélamine

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	cted melamine)
Contril	buting scenario controlli	ng environmental exposure	
CS1	Use as intermediate for	resins (reacted melamine)	ERC6a, ERC6c
Contril	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 processes with equivalent containment conditions	PROC3
CS5	Chemical production whether the second secon	nere 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 of	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 reager	nt	PROC15
CS13	Manual maintenance (cl	eaning and repair) of machinery	PROC28
SECTI	ON 2:	Conditions of use	
2.1		Contributing scenario controlling environmental exposur 2.1 Use as intermediate for resins (reacted melamine) (ERC 6	
Amoun	nt used, frequency and du	uration 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	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		Contributing scenario controlling worker exposure: 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	quency and duration of use		
Duratio	on of activity: <= 8 h/day		
Techni	cal conditions and measu	rres to control dispersion from source towards the worker	
Occupa	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%]		
		d to personal protection, hygiene and health evaluation	

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Respiratory protection: No [Effective Dermal protection: No [Effective				
Other given operational conditions affecting workers exposure				
Place of use: Indoor Operating temperature: <= 40 °C				
2.3	Contributing scenario controlling worker exposure: 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 produc				
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: No [Effective				
Other given operational conditional	ions 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 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 [Effect Dermal protection: No [Effective				
Other given operational conditions affecting workers exposure				
Other given operational condition				
Other given operational conditi Place of use: Indoor Operating temperature: <= 40 °C				
Place of use: Indoor				
Place of use: Indoor Operating temperature: <= 40 °C	Contributing scenario controlling worker exposure:			
Place of use: Indoor Operating temperature: <= 40 °C 2.5	Contributing scenario controlling worker exposure: 2.5 Chemical production where opportunity for exposure arises (PROC 4) mixture/article: <= 100 %			
Place of use: Indoor Operating temperature: <= 40 °C 2.5 Product characteristics Percentage (w/w) of substance in	Contributing scenario controlling worker exposure: 2.5 Chemical production where opportunity for exposure arises (PROC 4) mixture/article: <= 100 %			

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(eSDS) Mélamine

Technical conditions and measure	ires to control dispersion from source towards the worker			
	l 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 [Effec				
	ally resistant gloves conforming to EN374) and (other) appropriate dermal protection			
Other given operational conditional	ions affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.6	Contributing scenario controlling worker exposure: 2.6 Mixing or blending in batch processes (PROC 5)			
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	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	ed to personal protection, hygiene and health evaluation			
Respiratory protection: No [Effect Dermal protection: Yes (Chemica [Effectiveness, Dermal: 80%]	ctiveness, Inhalation: 0%] ally 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				
2.7	Contributing scenario controlling worker exposure: 2.7 Calendering operations (PROC 6)			
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 measured	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 [Effect	tiveness, Inhalation: 0%] the end of the end			
Other given operational conditional	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.8	Contributing scenario controlling worker exposure: 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%] 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: Yes (Chemica [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Illy 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	Contributing scenario controlling worker exposure: 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	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 [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Illy 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	Place of use: Indoor		
2.10	Contributing scenario controlling worker exposure: 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 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		
General ventilation: Basic genera Occupational Health and Safety M	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			
Conditions and measures relate	Respiratory protection: No [Effectiveness, Inhalation: 0%]		

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(eSDS) Mélamine

Dermal protection: Yes (Chemica [Effectiveness, Dermal: 80%]	lly 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				
2.11	Contributing scenario controlling worker exposure: 2.11 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	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 conditi	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 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				
2.13	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 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	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]			

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Occupational Health and Safety Man Local exhaust ventilation: No [Effect				
Conditions and measures related to	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:	2.14 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 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 ³		< 0.01
Man via Environment - Oral		Exposure via food consumption: 0.017 mg/kg bw/day		0.04
Man via Environment - Combined ro	utes			0.02
3.2. Worker				F
Contributing scenario controlling v likelihood of exposure or processes w				losed process without
Exposure route		Exposure estimate - Wo	rker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term		0.01 mg/m ³		< 0.01
Inhalation, Systemic effects, Acute		0.04 mg/m ³		< 0.01
Dermal, Systemic effects, Long Terr	n	0.034 mg/kg bw/day		< 0.01
Combined routes, Systemic effects, I	Long Term			< 0.01
Contributing scenario controlling v occasional controlled exposure or pro-				
Exposure route		Exposure estimate - Worker		Risk quantification (RCR)
Inhalation, Systemic effects, Long Term		0.5 mg/m ³		0.06
Inhalation, Systemic effects, Acute		2 mg/m ³		0.024
Dermal, Systemic effects, Long Term		1.37 mg/kg bw/day		0.116
Combined routes, Systemic effects, I	Long Term			0.176
Contributing scenario controlling v batch processes with occasional contr				
Exposure route		Exposure estimate - Wo	rker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	erm	1 mg/m ³		0.12
<u> </u>				·

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Má1	amine
VICI	annine

ure: Tabletting, compression, extrusio	
	0.719
-	0.116
	0.243
	0.602
Т	Risk quantification (RCR)
ure: Transfer of substance or mixture	
	0.252
	0.232
	0.049
_	0.12
Т	Risk quantification (RCR)
ure: Transfer of substance or mixture	
	0.835
-	0.232
-	0.243
	0.602
Exposure estimate - Worker	Risk quantification (RCR)
ure: Transfer of substance or mixture	(charging and discharging) at
	0.835
2.743 mg/kg bw/day	0.232
20 mg/m ³	0.243
-	0.602
	Risk quantification (RCR)
ure: Calendering operations (PROC 6)
	0.835
2.742 mg/kg bw/day	0.232
20 mg/m ³	0.243
5 mg/m ³	0.602
	Risk quantification (RCR)
ure: Mixing or blending in batch proc	
	0.719
-	0.116
-	0.243
	0.602
Exposure estimate - Worker	Risk quantification (RCR)
ure: Chemical production where oppo	ortunity for exposure arises (PROC
	0.179
0.69 mg/kg bw/day	0.058
	ure: Chemical production where opport Exposure estimate - Worker 5 mg/m³ 20 mg/m³ 1.372 mg/kg bw/day ure: Mixing or blending in batch proc Exposure estimate - Worker 5 mg/m³ 20 mg/m³ 20 mg/m³ 20 mg/m³ 20 mg/m³ 2.742 mg/kg bw/day ure: Calendering operations (PROC 6 Exposure estimate - Worker 5 mg/m³ 20 mg/m³ 2.743 mg/kg bw/day ure: Transfer of substance or mixture Exposure estimate - Worker 5 mg/m³ 20 mg/m³ 2.743 mg/kg bw/day ure: Transfer of substance or mixture Exposure estimate - Worker 5 mg/m³ 20 mg/m³ 2.742 mg/kg bw/day

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Exposure route		Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	`erm	1 mg/m ³	0.12
Inhalation, Systemic effects, Acute		4 mg/m ³	0.049
Dermal, Systemic effects, Long Terr	m	3.43 mg/kg bw/day	0.291
Combined routes, Systemic effects,	Long Term		0.411
Contributing scenario controlling	worker expos	ure: Use as laboratory reagent (PROC	2 15)
Exposure route		Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	`erm	0.5 mg/m ³	0.06
Inhalation, Systemic effects, Acute		2 mg/m ³	0.024
Dermal, Systemic effects, Long Term		0.34 mg/kg bw/day	0.029
Combined routes, Systemic effects, Long Term			0.089
Contributing scenario controlling	worker exposu	re: Manual maintenance (cleaning an	d repair) of machinery (PROC 28
Exposure route		Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long T	`erm	5 mg/m ³	0.602
Inhalation, Systemic effects, Acute		20 mg/m ³	0.243
Dermal, Systemic effects, Long Term		2.742 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term			0.835
SECTION 4: 2.15 Guidance the ES		e to DU to evaluate whether he wor	ks inside the boundaries set by

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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SECT	ION 1:	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
Contr	ibuting scenario controlli	ing environmental exposure	
CS1	Use of resins with unre	acted residual melamine	ERC5
Contr	ibuting scenario controlli	ing worker exposure	
CS2	Industrial spraying		PROC7
CS3	Transfer of substance o facilities	r mixture (charging and discharging) at non-dedicated	PROC8a
CS4	Transfer of substance o	r mixture (charging and discharging) at dedicated facilities	PROC8b
CS5	Roller application or br	ushing	PROC10
CS6	Hand-mixing with intin	nate contact and only PPE available	PROC19
CS7	Manual maintenance (c	leaning and repair) of machinery	PROC28
SECT	ION 2:	Conditions of use	
2.1		Contributing scenario controlling environmental exposu 3.1 Use of resins with unreacted residual melamine (ERC 5)	
Amou	nt used, frequency and d	uration of use (or from service life)	
Daily 1	use amount at site: not rele	want for the assessment as scenario specific releases are estimated and the assessment as scenario specific releases are estimated as the assessment as scenario specific releases are estimated as the assessment as scenario specific releases are estimated as the assessment as scenario specific releases are estimated as the assessment as scenario specific releases are estimated as the assessment as scenario specific releases are estimated as the assessment as	
Condit	ions and measures related	to biological sewage treatment plant	
Discha	ical STP: Standard [Effect arge rate of STP: >= 2E3 n ration of the STP sludge or	13/day	
Other	given operational condit	ions affecting environmental exposure	
	ring surface water flow: >=		
2.2			
Produ	ct characteristics		
	tage (w/w) of substance in al form of the used produc		
Frequ	ency and duration of use		
Durati	on of activity: <= 8 h/day		
Techn	ical conditions and meas	ures to control dispersion from source towards the worker	
Occup	ational Health and Safety	ral ventilation (mechanical) Management System: Advanced ffectiveness, Inhalation: 0%, Dermal: 0%]	
Condi	tions and measures relate	ed to personal protection, hygiene and health evaluation	
Derma	atory protection: No [Effe l protection: Yes (Chemic iveness, Dermal: 80%]	ctiveness, Inhalation: 0%] ally resistant gloves conforming to EN374) and (other) approp	riate dermal protection
Other	given operational condit	ions affecting workers exposure	
	of use: Indoor ing temperature: <= 40 °C		
2.3		Contributing scenario controlling worker exposure: 3.3 Transfer of substance or mixture (charging and discharg facilities (PROC 8a)	ing) at non-dedicated
		fuentites (FROC 6u)	
Produ	ct characteristics		

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Physical form of the used product	:: Liquid				
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: 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: 3.4 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	ures 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 [Effect Dermal protection: No [Effectives]					
Other given operational conditi	ons affecting workers exposure				
Place of use: Indoor Operating temperature: <= 40 °C					
2.5	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: 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 [Effect Dermal protection: No [Effective					
Other given operational conditions affecting workers exposure					
Place of use: Indoor Operating temperature: <= 40 °C					

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2.6	Contributing scenario controlling worker exposure: 3.6 Hand-mixing with intimate contact and only PPE available (PROC 19)				
Product characteristics					
Percentage (w/w) of substance in Physical form of the used product		5 %			
Frequency and duration of use					
Duration of activity: <= 8 h/day					
Technical conditions and measu	res to control disp	ersion from source toward	ls the work	ker	
Ventilation working room: Gener Occupational Health and Safety M Local exhaust ventilation: No [Ef	Anagement System	a: Advanced			
Conditions and measures relate	d to personal prot	ection, hygiene and health	evaluation		
Respiratory protection: No [Effec Dermal protection: Yes (Chemica [Effectiveness, Dermal: 80%]	tiveness, Inhalation lly resistant gloves	: 0%] conforming to EN374) and	(other) appr	copriate dermal protection	
Other given operational conditi	ons affecting work	ers exposure			
Place of use: Indoor Operating temperature: <= 40 °C					
2.7		nario controlling worker e enance (cleaning and repair)		ery (PROC 28)	
Product characteristics					
Percentage (w/w) of substance in Physical form of the used product		5 %			
Frequency and duration of use					
Duration of activity: <= 8 h/day					
Technical conditions and measu	res to control disp	ersion from source toward	ls the work	ter	
General ventilation: Basic general Occupational Health and Safety M Local exhaust ventilation: No [Ef	Aanagement System	: Advanced	veness, Inha	llation: 0%]	
Conditions and measures relate	d to personal prot	ection, hygiene and health	evaluation		
Respiratory protection: No [Effect Dermal protection: No [Effective]		: 0%]			
Other given operational conditi	ons affecting work	ers exposure			
Place of use: Indoor Operating temperature: <= 40 °C					
SECTION 3:	3.8 Exposure	estimation			
3.1. Environment					
Release	Release estin	mation method	Explanat	ions	
Water	Estimated rel	lease rate	Local rele	ease rate: 0.5 kg/day	
Air	Estimated re	lease rate	Local rele	ease rate: 0 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: 0.03 mg/l		0.06	
Sedimentation (Fresh water)		Local PEC: 0.148 mg/kg	dw	0.06	
Marine water		Local PEC: 3E-3 mg/l		0.06	
Sedimentation (Marine water)Local PEC: 0.015 mg/kg dw0.06				0.06	
Sewage Treatment Plant	Local PEC: 0.25 mg/l		< 0.01		

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· ·	
Mél	amine

Agricultural soil	Local PEC: 2.2E-3 mg/kg dw	0.01
Man via Environment - Inhalation (Systemic	Concentration in air:	< 0.01
effects)	9.8E-16 mg/m ³	< 0.01
Man via Environment - Oral	Exposure via food consumption: 1.09E-3 mg/kg bw/day	< 0.01
Man via Environment - Combined routes		< 0.01
3.2. Worker	-	•
Contributing scenario controlling worker exposur	re: Industrial spraying (PROC 7)	
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	2.43 mg/m ³	0.293
Inhalation, Systemic effects, Acute	2.43 mg/m ³	0.03
Dermal, Systemic effects, Long Term	1.714 mg/kg bw/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 (a	charging and discharging) at
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.105 mg/m ³	0.013
Inhalation, Systemic effects, Acute	0.105 mg/m ³	< 0.01
Dermal, Systemic effects, Long Term	2.74 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term		0.245
Contributing scenario controlling worker exposu non-dedicated facilities (PROC 8b)	re: Transfer of substance or mixture (o	charging and discharging) at
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.105 mg/m ³	0.013
Inhalation, Systemic effects, Acute	0.105 mg/m ³	< 0.01
Dermal, Systemic effects, Long Term	2.74 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term		0.245
Contributing scenario controlling worker exposu	re: Roller application or brushing (PR	OC 10)
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1.1 mg/m ³	0.133
Inhalation, Systemic effects, Acute	1.1 mg/m ³	0.013
Dermal, Systemic effects, Long Term	5.486 mg/kg bw/day	0.465
Combined routes, Systemic effects, Long Term		0.597
Contributing scenario controlling worker exposu 19)	re: Hand-mixing with intimate contact	t and only PPE available (PROC
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.53 mg/m ³	0.064
Inhalation, Systemic effects, Acute	0.53 mg/m ³	< 0.01
Dermal, Systemic effects, Long Term	5.657 mg/kg bw/day	0.479
Combined routes, Systemic effects, Long Term		0.543
Contributing scenario controlling worker exposur	re: Manual maintenance (cleaning and	repair) of machinery (PROC 28)
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.105 mg/m ³	0.013
	0.105 mg/m ³	< 0.01

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Dermal, Systemic effects, Long T	erm	2.74 mg/kg bw/day	0.232
Combined routes, Systemic effect	s, Long Term		0.245
SECTION 4:	3.9 Guidance the ES	to DU to evaluate whether h	e works inside the boundaries set by
performed for 8 hours, the daily av Guidance (Chapter R.14), this esti- inhalation exposure estimate (90th ECETOC TRA Workers 3.1: Explanation: As solid is used as va	ternal estimation is concentration estim f liquids at high pr zone of the worke res at the source cal ventilation (me 0-1000 m3 aily): Yes nce (at least month sources (worst-cas stance simultaneou curing after the ac led by the worker rerage concentration percentiles).	nated using Stoffenmanager® ressure resulting in substantial er (distance head-product < 1 echanical) hly): Yes e assumptions); usly: Yes ctivity (with prolonged emissis during the task due to the action on equals the task concentration on is therefore considered to b e liquid is used, it is considered kers (v3.1). The vapour pressu	generation of mist or spray/haze m) (worst-case assumption) on of vapours): Yes vity undertaken is obtained. As the task is
performed for 8 hours, the daily av	f liquids on large s zone of the works res at the source ral ventilation (me 0-1000 m3 aily): Yes nee (at least month sources (worst-cas stance simultaneou curing after the ac led by the worker rerage concentration mated concentration	surfaces or large work pieces er (distance head-product < 1 echanical) hly): Yes e assumptions); usly: Yes ctivity (with prolonged emissi during the task due to the action equals the task concentration	m) (worst-case assumption) on of vapours): Yes vity undertaken is obtained. As the task is
performed for 8 hours, the daily av	f liquids using low zone of the worke res at the source ral ventilation (me 0-1000 m3 aily): Yes nee (at least month sources (worst-cas stance simultaneou curing after the ac led by the worker rerage concentration mated concentration	v pressure, low speed or on me er (distance head-product < 1 wchanical) hly): Yes e assumptions); usly: Yes ctivity (with prolonged emissis during the task due to the action on equals the task concentration	edium-sized surfaces m) (worst-case assumption) on of vapours): Yes vity undertaken is obtained. As the task is

ECETOC TRA Workers 3.1:

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

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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	l melamine)			
SECTI	ON 1:	Title of exposure scenario			
	Use at industrial sites - Use as intermediate for the production of other substances e.g. melamine salt (reacted melamine)				
Contril	buting scenario controlli	ng environmental exposure			
CS1	Use as intermediate for melamine)	the production of other substances e.g. melamine salt (reacted	ERC6a		
Contril	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 processes with equivalent containment conditions	PROC3		
CS5	Chemical production wh	nere 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 mixture into small containers (dedicated filling line, including weighing) PROC9				
CS10	Use as laboratory reagen	nt	PROC15		
CS11	Manual maintenance (cl	eaning and repair) of machinery	PROC28		
SECTI	ON 2:	Conditions of use	1		
2.1	Contributing scenario controlling environmental exposure: 4.1 Use as intermediate for the production of other substances e.g. melamine salt (reacted melamine) (ERC 6a)				
Amoun	t used, frequency and du	ration 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 t	to biological sewage treatment plant			
Dischar	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				
Receivi	ceiving surface water flow: $>= 1.8E4 \text{ m}3/day$				
2.2					
Produc	et characteristics				
		mixture/article: <= 100 % :: Solid (medium dusty form)			
Freque	ency and duration of use				
Duratio	on of activity: <= 8 h/day				
Technie	cal conditions and measu	rres 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%]		

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Conditions and measures related 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	Contributing scenario controlling worker exposure: 4.3 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 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 conditi	ons affecting workers exposure	
Place of use: Indoor Operating temperature: <= 40 °C		
2.4	Contributing scenario controlling worker exposure: 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)	
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 [Effectiveness, Inhalation: 0%] Dermal protection: No [Effectiveness, Dermal: 0%]		
Other given operational conditions affecting workers exposure		
Place of use: Indoor Operating temperature: <= 40 °C		
2.5	Contributing scenario controlling worker exposure: 4.5 Chemical production where opportunity for exposure arises (PROC 4)	
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		

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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 relate	ed to personal protection, hygiene and health evaluation	
Respiratory protection: No [Effect Dermal protection: Yes (Chemica [Effectiveness, Dermal: 80%]	ctiveness, Inhalation: 0%] ally 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	Contributing scenario controlling worker exposure: 4.6 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 measu	ures 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 ffectiveness, 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%] ally 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		
2.7	Contributing scenario controlling worker exposure: 4.7 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 measu	ures 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 ffectiveness, Inhalation: 0%, Dermal: 0%]	
Conditions and measures relate	ed 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 conditi	ions affecting workers exposure	
Place of use: Indoor Operating temperature: <= 40 °C		

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2.8	Contributing scenario controlling worker exposure:
	4.8 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 measure	ures 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 ffectiveness, 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%] ally resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational condit	ions 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 Physical form of the used produc	
Frequency and duration of use	
Duration of activity: <= 8 h/day	
Technical conditions and meas	ures 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 ffectiveness, 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%]	ctiveness, Inhalation: 0%] ally resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational condit	ions affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.10	Contributing scenario controlling worker exposure: 4.10 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 measure	ures to control dispersion from source towards the worker
Occupational Health and Safety I	ll ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced ffectiveness, Inhalation: 0%, Dermal: 0%]

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Conditions and measures related t	to personal prot	ection, hygiene and health	evaluation	
Respiratory protection: No [Effectiv Dermal protection: No [Effectivenes		: 0%]		
Other given operational condition	s affecting work	ers exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
		nario controlling worker ex tenance (cleaning 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	ersion from source toward	s the work	ker
General ventilation: Basic general ventilation: Basic general ventilational Health and Safety Mar Local exhaust ventilation: No [Effect	nagement System	h: Advanced	eness, Inha	ulation: 0%]
Conditions and measures related t	to personal prot	ection, hygiene and health	evaluation	
Respiratory protection: No [Effectiv Dermal protection: Yes (Chemically [Effectiveness, Dermal: 80%]			(other) app	ropriate dermal protection
Other given operational condition	s affecting work	ers exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
SECTION 3:	4.12 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 f	actor after on-site RMM: 0%
Protection target		Exposure concentration	Risk quantification (RC	
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	Agricultural soil		Local PEC: 0.02917 mg/kg dw	
Man via Environment - Inhalation (Systemic effects)			-	0.08
	ion (Systemic	Concentration in air: 3.97E-5 mg/m ³	_	< 0.01
	ion (Systemic	Concentration in air:	nption:	
effects)		Concentration in air: 3.97E-5 mg/m ³ Exposure via food consun	nption:	< 0.01
effects) Man via Environment - Oral		Concentration in air: 3.97E-5 mg/m ³ Exposure via food consun	nption:	< 0.01 0.02
effects) Man via Environment - Oral Man via Environment – Combined r	outes worker exposur	Concentration in air: 3.97E-5 mg/m ³ Exposure via food consun 9.7E-3 mg/kg bw/day e: Chemical production or r	efinery in c	< 0.01 0.02 0.02
effects) Man via Environment - Oral Man via Environment – Combined r 3.2. Worker Contributing scenario controlling	outes worker exposur	Concentration in air: 3.97E-5 mg/m ³ Exposure via food consun 9.7E-3 mg/kg bw/day e: Chemical production or r	efinery in c OC 1)	< 0.01 0.02 0.02

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Inhalation, Systemic effects, Acute	0.04 mg/m ³	< 0.01
Dermal, Systemic effects, Long Term	0.034 mg/kg bw/day	< 0.01
Combined routes, Systemic effects, Long Term		< 0.01
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 ³	0.06
Inhalation, Systemic effects, Acute	2 mg/m ³	0.024
Dermal, Systemic effects, Long Term	1.37 mg/kg bw/day	0.116
Combined routes, Systemic effects, Long Term		0.176
Contributing scenario controlling worker expose batch processes with occasional controlled exposure		
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m ³	0.12
Inhalation, Systemic effects, Acute	4 mg/m ³	0.049
Dermal, Systemic effects, Long Term	0.69 mg/kg bw/day	0.058
Combined routes, Systemic effects, Long Term		0.179
Contributing scenario controlling worker expos	sure: 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 ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kg bw/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 ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
Contributing scenario controlling worker expos 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 ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
Contributing scenario controlling worker expos non-dedicated facilities (PROC 8b)	sure: Transfer of substance or mixture	(charging and discharging) at
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m ³	0.12
Inhalation, Systemic effects, Acute	4 mg/m ³	0.049
Dermal, Systemic effects, Long Term	2.742 mg/kg bw/day	0.232
2 erina, Systemie erieets, 2018 i erin		

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Exposure route		Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Terr	m	5 mg/m ³	0.602
Inhalation, Systemic effects, Acute		20 mg/m ³	0.243
Dermal, Systemic effects, Long Term		1.372 mg/kg bw/day	0.116
Combined routes, Systemic effects, Lo	ng Term		0.719
Contributing scenario controlling we	orker exposu	Ire: Use as laboratory reagent (PROC	2 15)
Exposure route		Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Terr	n	0.5 mg/m ³	0.06
Inhalation, Systemic effects, Acute		2 mg/m ³	0.024
Dermal, Systemic effects, Long Term		0.34 mg/kg bw/day	0.029
Combined routes, Systemic effects, Long Term			0.089
Contributing scenario controlling wo	rker exposu	re: Manual maintenance (cleaning an	d repair) of machinery (PROC 28
Exposure route		Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Terr	n	5 mg/m ³	0.602
Inhalation, Systemic effects, Acute		20 mg/m ³	0.243
Dermal, Systemic effects, Long Term		2.742 mg/kg bw/day	0.232
Combined routes, Systemic effects, Lo	ng Term		0.835
	.13 Guidanco ne ES	e to DU to evaluate whether he wor	ks inside the boundaries set by

these estimates can be considered suitable for estimating exposures during manual maintenance.

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

5.		Use at industrial sites - Use as additive in foams	
SECTI	ON 1:	Title of exposure scenario	
		Use at industrial sites - Use as additive in foams	
	_	ng environmental exposure	
CS1	Use as additive in foams		ERC5
	buting scenario controllin		
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	nere opportunity for exposure arises	PROC4
CS6	Mixing or blending in ba	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		Contributing scenario controlling environmental exposur 5.1 Use as additive in foams (ERC 5)	e:
Amoun	t used, frequency and du	uration 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 ge rate of STP: >= 2E3 m tion of the STP sludge on	3/day	
		ons affecting environmental exposure	
	ng surface water flow: >=	Ŭ Î	
2.2		Contributing scenario controlling worker exposure: 5.2 Chemical production or refinery in closed process withou processes with equivalent containment conditions (PROC 1)	t likelihood of exposure or
Produc	t characteristics		
	age (w/w) of substance in l form of the used product	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	
		ventilation (1-3 air changes per hour) [Effectiveness, Inhalation	

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Occupational Health and Safety M Local exhaust ventilation: No [Ef	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	
2.3	Contributing scenario controlling worker exposure: 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	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: 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: 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%] 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 conditional	ons affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.5	Contributing scenario controlling worker exposure: 5.5 Chemical production where opportunity for exposure arises (PROC 4)
Product characteristics	
Percentage (w/w) of substance in	mixture/article: <= 100 %

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Physical form of the used product	:: Solid (medium dusty form)
Frequency and duration of use	
Duration of activity: <= 8 h/day	
· · · · ·	rres to control dispersion from source towards the worker
General ventilation: Basic general Occupational Health and Safety M	l 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 (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	
2.6	Contributing scenario controlling worker exposure: 5.6 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%] Illy 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: 5.7 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	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 (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

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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 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	ed to personal protection, hygiene and health evaluation
Respiratory protection: No [Effect Dermal protection: Yes (Chemica [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] ally 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	
2.9	Contributing scenario controlling worker exposure: 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 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	ed to personal protection, hygiene and health evaluation
Respiratory protection: No [Effect Dermal protection: Yes (Chemica [Effectiveness, Dermal: 80%]	ctiveness, Inhalation: 0%] ally 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 measu	ares to control dispersion from source towards the worker
General ventilation: Basic genera	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]

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Occupational Health and Safety M Local exhaust ventilation: No [Eff	Ianagement System: Advanced fectiveness, 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 condition	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
2.11	Contributing scenario controlling worker e 5.11 Hand-mixing with intimate contact and o			
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 worker		
Occupational Health and Safety M	ventilation (1-3 air changes per hour) [Effectiv Ianagement System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]	eness, Inhalation: 0%]		
Conditions and measures relate	d to personal protection, hygiene and health	evaluation		
Respiratory protection: No [Effec Dermal protection: Yes (Chemica appropriate dermal protection [Ef	lly resistant gloves conforming to EN374 with	specific activity 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 e 5.12 Manual maintenance (cleaning and repair			
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 worker		
Occupational Health and Safety M	ventilation (1-3 air changes per hour) [Effectiv Ianagement System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]	veness, Inhalation: 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 condition	ons affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °C				
SECTION 3:	5.13 Exposure estimation			
3.1. Environment				
Release	Release estimation method	Explanations		
Water	Estimated release rate	Local release rate: 3 kg/day		

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Mél	amine

Air	Estimated re	release rate Local releas		ease rate: 0.5 kg/day
Non-Agricultural Soil	Estimated re	lease factor	Release f	actor after on-site RMM: 0%
Protection target	Protection target			Risk quantification (RCR)
Fresh water	resh water			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: 0.017 mg/kg	dw	0.08
Man via Environment - Inhalatio effects)	n (Systemic	Concentration in air: 3.971E-5 mg/m ³		< 0.01
Man via Environment - Oral		Exposure via food consur 9.7E-3 mg/kg bw/day	nption:	0.02
Man via Environment - Combined ro	utes			0.02
3.2. Worker				
Contributing scenario controlling w likelihood of exposure or processes w				closed process without
Exposure route		Exposure estimate - Wo	rker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Te	rm	0.01 mg/m ³		< 0.01
Inhalation, Systemic effects, Acute		0.04 mg/m ³		< 0.01
Dermal, Systemic effects, Long Term	l	0.034 mg/kg bw/day		< 0.01
Combined routes, Systemic effects, L	ong Term			< 0.01
Contributing scenario controlling w occasional controlled exposure or pro-				
Exposure route		Exposure estimate - Wo	rker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Te	rm	0.5 mg/m ³		0.06
Inhalation, Systemic effects, Acute		2 mg/m ³		0.024
Dermal, Systemic effects, Long Term	l	1.37 mg/kg bw/day		0.116
Combined routes, Systemic effects, L	ong Term			0.176
Contributing scenario controlling w batch processes with occasional control	-			-
Exposure route		Exposure estimate - Wo	rker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Te	rm	1 mg/m ³		0.12
Inhalation, Systemic effects, Acute		4 mg/m ³		0.049
Dermal, Systemic effects, Long Term	l	0.69 mg/kg bw/day		0.058
Combined routes, Systemic effects, L	ong Term			0.179
Contributing scenario controlling v 4)	vorker exposu	re: Chemical production wh	ere opportu	inity for exposure arises (PROC
Exposure route		Exposure estimate - Wo	rker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Te	rm	5 mg/m ³		0.602
Inhalation, Systemic effects, Acute		20 mg/m³		0.243
Dermal, Systemic effects, Long Term	1	1.372 mg/kg bw/day		0.116
Combined routes, Systemic effects, L	ong Term			0.719
Contributing scenario controlling v	vorker exposu	re: Mixing or blending in ba	atch process	ses (PROC 5)
Exposure route		Exposure estimate - Wo	rker	Risk quantification (RCR)

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V A	amine
VIUI	annin

-	
5 mg/m ³	0.602
20 mg/m ³	0.243
2.742 mg/kg bw/day	0.232
	0.835
Ire: Transfer of substance or mixture (charging and discharging) at
Exposure estimate - Worker	Risk quantification (RCR)
5 mg/m ³	0.602
20 mg/m ³	0.243
2.742 mg/kg bw/day	0.232
	0.835
ire: Transfer of substance or mixture (charging and discharging) at
Exposure estimate - Worker	Risk quantification (RCR)
1 mg/m ³	0.12
4 mg/m ³	0.049
2.742 mg/kg bw/day	0.232
	0.353
ire: Transfer of substance or mixture in	nto small containers (dedicated
Exposure estimate - Worker	Risk quantification (RCR)
5 mg/m ³	0.602
20 mg/m ³	0.243
1.372 mg/kg bw/day	0.116
	0.719
ire: Use as laboratory reagent (PROC	15)
	15)
Exposure estimate - Worker	Risk quantification (RCR)
Exposure estimate - Worker	Risk quantification (RCR)
Exposure estimate - Worker 0.5 mg/m ³	Risk quantification (RCR) 0.06
Exposure estimate - Worker 0.5 mg/m ³ 2 mg/m ³	Risk quantification (RCR) 0.06 0.024
Exposure estimate - Worker 0.5 mg/m ³ 2 mg/m ³	Risk quantification (RCR) 0.06 0.024 0.029 0.089
Exposure estimate - Worker 0.5 mg/m³ 2 mg/m³ 0.34 mg/kg bw/day	Risk quantification (RCR) 0.06 0.024 0.029 0.089
Exposure estimate - Worker 0.5 mg/m ³ 2 mg/m ³ 0.34 mg/kg bw/day Ire: Hand-mixing with intimate contac	Risk quantification (RCR)0.060.0240.0290.089t and only PPE available (PROC
Exposure estimate - Worker 0.5 mg/m ³ 2 mg/m ³ 0.34 mg/kg bw/day are: Hand-mixing with intimate contact Exposure estimate - Worker	Risk quantification (RCR) 0.06 0.024 0.029 0.089 t and only PPE available (PROC Risk quantification (RCR)
Exposure estimate - Worker 0.5 mg/m ³ 2 mg/m ³ 0.34 mg/kg bw/day Ire: Hand-mixing with intimate contact Exposure estimate - Worker 3 mg/m ³	Risk quantification (RCR) 0.06 0.024 0.029 0.089 t and only PPE available (PROC Risk quantification (RCR) 0.361
Exposure estimate - Worker 0.5 mg/m³ 2 mg/m³ 0.34 mg/kg bw/day ure: Hand-mixing with intimate contact Exposure estimate - Worker 3 mg/m³ 20 mg/m³	Risk quantification (RCR) 0.06 0.024 0.029 0.089 t and only PPE available (PROC Risk quantification (RCR) 0.361 0.243
Exposure estimate - Worker 0.5 mg/m³ 2 mg/m³ 0.34 mg/kg bw/day ure: Hand-mixing with intimate contact Exposure estimate - Worker 3 mg/m³ 20 mg/m³	Risk quantification (RCR) 0.06 0.024 0.029 0.089 t and only PPE available (PROC Risk quantification (RCR) 0.361 0.243 0.599 0.961
Exposure estimate - Worker 0.5 mg/m³ 2 mg/m³ 0.34 mg/kg bw/day are: Hand-mixing with intimate contact Exposure estimate - Worker 3 mg/m³ 20 mg/m³ 7.072 mg/kg bw/day	Risk quantification (RCR) 0.06 0.024 0.029 0.089 t and only PPE available (PROC Risk quantification (RCR) 0.361 0.243 0.599 0.961
Exposure estimate - Worker 0.5 mg/m³ 2 mg/m³ 0.34 mg/kg bw/day ure: Hand-mixing with intimate contact Exposure estimate - Worker 3 mg/m³ 20 mg/m³ 7.072 mg/kg bw/day re: Manual maintenance (cleaning and	Risk quantification (RCR) 0.06 0.024 0.029 0.089 t and only PPE available (PROC Risk quantification (RCR) 0.361 0.243 0.599 0.961
Exposure estimate - Worker 0.5 mg/m³ 2 mg/m³ 0.34 mg/kg bw/day ure: Hand-mixing with intimate contact Exposure estimate - Worker 3 mg/m³ 20 mg/m³ 7.072 mg/kg bw/day re: Manual maintenance (cleaning and Exposure estimate - Worker	Risk quantification (RCR) 0.06 0.024 0.029 0.089 t and only PPE available (PROC Risk quantification (RCR) 0.361 0.243 0.599 0.961 repair) of machinery (PROC 28) Risk quantification (RCR)
Exposure estimate - Worker 0.5 mg/m³ 2 mg/m³ 0.34 mg/kg bw/day ure: Hand-mixing with intimate contact Exposure estimate - Worker 3 mg/m³ 20 mg/m³ 7.072 mg/kg bw/day re: Manual maintenance (cleaning and Exposure estimate - Worker 5 mg/m³	Risk quantification (RCR) 0.06 0.024 0.029 0.089 t and only PPE available (PROC Risk quantification (RCR) 0.361 0.243 0.599 0.961 repair) of machinery (PROC 28) Risk quantification (RCR) 0.602
	20 mg/m³ 2.742 mg/kg bw/day Ire: Transfer of substance or mixture (of Exposure estimate - Worker 5 mg/m³ 20 mg/m³ 2.742 mg/kg bw/day Ire: Transfer of substance or mixture (of Exposure estimate - Worker 1 mg/m³ 2.742 mg/kg bw/day Ire: Transfer of substance or mixture in Exposure estimate - Worker 1 mg/m³ 2.742 mg/kg bw/day Ire: Transfer of substance or mixture in Exposure estimate - Worker 5 mg/m³ 2.0 mg/m³ 1.372 mg/kg bw/day

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SECTION 4:	5.14 Guidance to DU to evaluate whether he works inside the boundaries set by the ES	
Remarks on exposure data from external estimation tools: 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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6.	Exposure Scenario 6: Use at industrial sites - Use as additive in intumescent coatings
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6. SECTI		Use at industrial sites - Use as additive in intumescent coati Title of exposure scenario	<u> </u>			
		Use at industrial sites - Use as additive in intumescent coa	tings			
Contril	outing scenario controlli	ng environmental exposure	0			
CS1						
Contril	uting scenario controllin	ng worker exposure				
CS2	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure 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 reagent PROC15					
CS13	Hand-mixing with intim	ate contact and only PPE available	PROC19			
CS14	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						
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				
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 Contributing scenario controlling worker exposure: 6.2 Manufacture or formulation in the chemical industry in closed batch proces occasional controlled exposure or processes with equivalent containment condi (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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General ventilation: Basic genera Occupational Health and Safety M Local exhaust ventilation: No [Ef	
Occupational Health and Safety M Local exhaust ventilation: No [Ef	Management System: Advanced
Conditions and magazine	ffectiveness, Inhalation: 0%, Dermal: 0%]
conumous and measures relate	ed to personal protection, hygiene and health evaluation
Respiratory protection: No [Effec Dermal protection: No [Effective	
Other given operational condit	ions 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 produc	
Frequency and duration of use	
Duration of activity: $\leq 8 \text{ h/day}$	
	ures to control dispersion from source towards the worker
General ventilation: Basic genera Occupational Health and Safety I	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%]
Conditions and measures relate	ed to personal protection, hygiene and health evaluation
Respiratory protection: No [Effec Dermal protection: Yes (Chemica [Effectiveness, Dermal: 80%]	ctiveness, Inhalation: 0%] ally resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational condit	ions affecting workers exposure
Place of use: Indoor Operating temperature: <= 40 °C	
2.4	Contributing scenario controlling worker exposure: 6.4 Mixing or blending in batch processes (PROC 5)
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	ures 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 ffectiveness, 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%]	ctiveness, Inhalation: 0%] ally resistant gloves conforming to EN374) and (other) appropriate dermal protection
Other given operational condit	ions 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)
	1

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Mélamine

Frequency and duration of use	
Duration of activity: <= 8 h/day	
	res to control dispersion from source towards the worker
Ventilation working room: Gener Occupational Health and Safety N	al ventilation (mechanical)
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	
2.6	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	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 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	Contributing scenario controlling worker exposure: 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	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%] Janagement 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

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((e	S	DS)
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Mélamine

Other given operational conditions affecting workers exposure				
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 (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				
2.9	Contributing scenario controlling worker exposure: 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 (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				
2.10	Contributing scenario controlling worker exposure: 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 measu	res to control dispersion from source towards the worker			

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Ventilation working room: Gener Occupational Health and Safety I	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 [Effe					
Other given operational condit	ions affecting workers exposure				
Place of use: Indoor Operating temperature: <= 40 °C	·				
2.11	Contributing scenario controlling worker exposure: 6.11 Treatment of articles by dipping and pouring (PROC 13)				
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	ures to control dispersion from source towards the worker				
Occupational Health and Safety I	al ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced ffectiveness, 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%] ally resistant gloves conforming to EN374) and (other) appropriate dermal protection				
Other given operational condit	ions affecting workers exposure				
Place of use: Indoor Operating temperature: <= 40 °C					
2.12	Contributing scenario controlling worker exposure: 6.12 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 meas	ures to control dispersion from source towards the worker				
Occupational Health and Safety I	al ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Advanced ffectiveness, Inhalation: 0%, Dermal: 0%]				
Conditions and measures related	ed to personal protection, hygiene and health evaluation				
Respiratory protection: No [Effect					
Dermal protection: No [Effective					
-	ions affecting workers exposure				
-	ions affecting workers exposure				
Other given operational condit Place of use: Indoor	ions affecting workers exposure				
Other given operational condit Place of use: Indoor Operating temperature: <= 40 °C	ions affecting workers exposure Contributing scenario controlling worker exposure:				

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Physical form of the used product: Li	Physical form of the used product: Liquid				
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 vo Occupational Health and Safety Mana Local exhaust ventilation: No [Effect	agement System	a: Advanced			
Conditions and measures related to	personal prot	ection, hygiene and health	evaluation		
Respiratory protection: No [Effective Dermal protection: Yes (Chemically r appropriate dermal protection [Effect	esistant gloves	conforming to EN374 with	specific act	ivity training) and (other)	
Other given operational conditions	affecting work	ers exposure			
Place of use: Indoor Operating temperature: <= 40 °C					
		nario controlling worker ended to the second		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	er	
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 prot	ection, hygiene and health	evaluation		
Respiratory protection: No [Effective Dermal protection: Yes (Chemically 1 [Effectiveness, Dermal: 80%]			(other) appi	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	mation method	Explanat	ions	
Water	Estimated rel	lease rate	Local rele	ease rate: 3 kg/day	
Air	Estimated rel	lease rate	Local rele	ease rate: 0.5 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: 0.155 mg/l		0.3	
Sedimentation (Fresh water)Local PEC: 0.766 mg/kg dw0.3					
Marine waterLocal PEC: 0.0155 mg/l0.3					
Sedimentation (Marine water)Local PEC: 0.077 mg/kg dw0.3					
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 ³ < 0.01					

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Man via Environment - Oral	Exposure via food consumption: 9.7E-3 mg/kg bw/day	0.02
Man via Environment – Combined routes		0.02
3.2. Worker		
Contributing scenario controlling worker expose batch processes with occasional controlled exposure		
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m ³	0.12
Inhalation, Systemic effects, Acute	4 mg/m ³	0.049
Dermal, Systemic effects, Long Term	0.69 mg/kg bw/day	0.058
Combined routes, Systemic effects, Long Term		0.179
Contributing scenario controlling worker expos 4)	sure: Chemical production where oppor	rtunity for exposure arises (PROC
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kg bw/day	0.116
Combined routes, Systemic effects, Long Term		0.719
Contributing scenario controlling worker expos	ure: Mixing or blending in batch proce	esses (PROC 5)
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
Contributing scenario controlling worker expos 7)	sure: Industrial spraying with Local Ext	haust Ventilation (LEV) (PROC
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.4 mg/m³	0.048
Inhalation, Systemic effects, Acute	0.4 mg/m ³	< 0.01
Dermal, Systemic effects, Long Term	8.572 mg/kg bw/day	0.726
Combined routes, Systemic effects, Long Term		0.775
Contributing scenario controlling worker expos (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 ³	0.096
Inhalation, Systemic effects, Acute	0.795 mg/m ³	< 0.01
Dermal, Systemic effects, Long Term	8.572 mg/kg bw/day	0.726
Combined routes, Systemic effects, Long Term		0.822
Contributing scenario controlling worker expos 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 ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m³	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kg bw/day	0.232
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Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1 mg/m ³	0.12
Inhalation, Systemic effects, Acute	4 mg/m ³	0.049
Dermal, Systemic effects, Long Term	2.742 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term		0.353
Contributing scenario controlling worker expos filling line, including weighing) (PROC 9)	ure: 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 ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kg bw/day	0.116
Combined routes, Systemic effects, Long Term		0.719
Contributing scenario controlling worker expos	ure: Roller application or brushing (P	ROC 10)
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	3.59 mg/m ³	0.433
Inhalation, Systemic effects, Acute	3.59 mg/m ³	0.044
Dermal, Systemic effects, Long Term	5.486 mg/kg bw/day	0.465
Combined routes, Systemic effects, Long Term		0.897
Contributing scenario controlling worker expos	ure: Treatment of articles by dipping	and pouring (PROC 13)
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.525 mg/m ³	0.063
Inhalation, Systemic effects, Acute	0.525 mg/m ³	< 0.01
Dermal, Systemic effects, Long Term	2.743 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term		0.296
Contributing scenario controlling worker expos	ure: Use as laboratory reagent (PROC	2 15)
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.5 mg/m ³	0.06
Inhalation, Systemic effects, Acute	2 mg/m ³	0.024
Dermal, Systemic effects, Long Term	0.34 mg/kg bw/day	0.029
Combined routes, Systemic effects, Long Term		0.089
Contributing scenario controlling worker expos 19)	ure: Hand-mixing with intimate conta	ct and only PPE available (PRO
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	1.74 mg/m ³	0.21
Inhalation, Systemic effects, Acute	1.74 mg/m ³	0.021
Dermal, Systemic effects, Long Term	7.072 mg/kg bw/day	0.599
Combined routes, Systemic effects, Long Term		0.809
Contributing scenario controlling worker expose	ure: Manual maintenance (cleaning an	d repair) of machinery (PROC 2
	Exposure estimate - Worker	Risk quantification (RCR)
Exposure route	Exposure estimate - worker	Kisk quantification (KCK)

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Dermal, Systemic effects, Long Term		2.742 mg/kg bw/day	0.232	
Combined routes, Systemic effects, Long Term			0.835	
SECTION 4:	······································			
Demostra en entre dete fre merete	the ES			
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)				
 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). 				
 Activity/type of task: Handling of I Distance to task: In the breathing ze Local controls: No control measure Ventilation working room: General Volume of the working room: 100- Regular cleaning of work area (dail Regular inspection and maintenance Presence of secondary emission sou Other workers using the same substation A period of evaporation, drying or cut The concentration that can be inhaled performed for 8 hours, the daily aver 	iquids on large s one of the worke s at the source ventilation (mec 1000 m3 y): Yes e (at least month irces (worst-case nce simultaneou iring after the ac d by the worker of age concentratio ited concentratio	r (distance head-product < 1 m) (worst- chanical) ly): Yes e assumptions);	-case assumption) ours): Yes taken is obtained. As the task is ordance with the ECHA	
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).				

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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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SECTI		Widespread use by professional workers - Use as additive Title of exposure scenario	
		Widespread use by professional workers - Use as additiv	ve in intumescent coatings
Contri	buting scenario controlli	ng environmental exposure	
CS1	Use as additive in intum		ERC5
Contri	buting scenario controlli		
CS2	Mixing or blending in b		PROC5
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	Transfer of substance or including weighing)	mixture into small containers (dedicated filling line,	PROC9
CS6	Roller application or bru	Ishing	PROC10
	Non industrial spraying		PROC11
CS7	Treatment of articles by	dipping and pouring	PROC13
CS8	Hand-mixing with intim	ate contact and only PPE available	PROC19
CS9	Manual maintenance (cl	eaning and repair) of machinery	PROC28
Subseq	uent service life exposur	e scenario(s):	- I
ES10	Service life (professiona	l worker) - Intumescent coatings - Professional Workers	
ES12	Service life (consumers)	- Intumescent coating – Consumers	
SECTI	ON 2:	Conditions of use	
2.1			
Amour	nt used, frequency and du	iration of use (or from service life)	
Daily lo	ocal widespread use amoun	nt: not relevant for the assessment as scenario specific release	s are estimated
Conditi	ions and measures related t	o 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 Contributing scenario controlling worker exposure: 7.2 Mixing or blending in batch processes (PROC 5)			
Produc	et characteristics		
	tage (w/w) of substance in al form of the used product	mixture/article: <= 100 % : Solid (medium dusty form)	
Freque	ency and duration of use		
Duratic	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, Inhalat Management System: Basic fectiveness, Inhalation: 0%, Dermal: 0%]	tion: 0%]
Condit	ions and measures relate	d to personal protection, hygiene and health evaluation	
Dermal	tory protection: No [Effec protection: Yes (Chemica iveness, Dermal: 80%]	tiveness, Inhalation: 0%] lly resistant gloves conforming to EN374) and (other) approp	priate dermal protection
Other	given operational conditi	ons affecting workers exposure	

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Place of use: Indoor Operating temperature: <= 40 °C					
2.3	Contributing scenario controlling worker exposure: 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				
Occupational Health and Safety N	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management System: Basic 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 conditi	ons affecting workers exposure				
Place of use: Indoor Operating temperature: <= 40 °C					
2.4	Contributing scenario controlling worker exposure: 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 N	l ventilation (1-3 air changes per hour) [Effectiveness, Inhalation: 0%] Management 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 (Chemica [Effectiveness, Dermal: 80%]	tiveness, Inhalation: 0%] Illy 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: 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	Duration of activity: <= 8 h/day				
Technical conditions and measures to control dispersion from source towards the worker					

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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	Conditions and measures related 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	Other given operational conditions affecting workers exposure					
Place of use: Indoor Operating temperature: <= 40 °C						
2.6	Contributing scenario controlling worker exposure: 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: General ventilation (mechanical) Occupational Health and Safety Management System: Basic Local exhaust ventilation: No [Effectiveness, 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 condition	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 [Eff						
Conditions and measures relate	d to personal protection, hygiene and health evaluation					
	irator 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 condition	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						

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Percentage (w/w) of substance in mize Physical form of the used product: L		30 %		
Frequency and duration of use	quiu			
Duration of activity: <= 8 h/day				
Technical conditions and measures	to control disn	arsian from source toward	le the work	or
General ventilation: Basic general ve Occupational Health and Safety Man Local exhaust ventilation: No [Effect	ntilation (1-3 air agement System	changes per hour) [Effectiv Basic		
Conditions and measures related to	o personal prote	ection, hygiene and health	evaluation	
Respiratory protection: No [Effective Dermal protection: Yes (Chemically [Effectiveness, Dermal: 80%]			(other) appi	opriate dermal protection
Other given operational conditions	affecting work	ers exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
	Contributing scenario controlling worker exposure: 7.9 Manual maintenance (cleaning and repair) of machinery (PROC 28)			ery (PROC 28)
Product characteristics				
Percentage (w/w) of substance in mix Physical form of the used product: L		30 %		
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
General ventilation: Basic general ve Occupational Health and Safety Man Local exhaust ventilation: No [Effect	agement System	: Basic	veness, Inha	lation: 0%]
Conditions and measures related to	o personal prote	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	ers exposure		
Place of use: Indoor Operating temperature: <= 40 °C				
SECTION 3:	7.10 Exposure	estimation		
3.1. Environment				
Release	Release estin	nation method	Explanat	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)		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	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 - Inhalati	on (Systemic	Concentration in air: < 0.01		< 0.01

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# /1	•
VI AI	amine
VICI	annin

effects)	1.62E-21 mg/m ³	
Man via Environment - Oral	Exposure via food consumption: 1.74E-4 mg/kg bw/day	< 0.01
Man via Environment - Combined routes		< 0.01
3.2. Worker		
Contributing scenario controlling worker expos	ure: Mixing or blending in batch proce	esses (PROC 5)
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
Contributing scenario controlling worker expos 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	0.525 mg/m ³	0.063
Inhalation, Systemic effects, Acute	0.525 mg/m ³	< 0.01
Dermal, Systemic effects, Long Term	2.743 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term		0.296
Contributing scenario controlling worker expos non-dedicated facilities (PROC 8b)	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 ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243
Dermal, Systemic effects, Long Term	2.742 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term		0.835
Contributing scenario controlling worker expos filling line, including weighing) (PROC 9)	ure: Transfer of substance or mixture i	nto small containers (dedicated
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	5 mg/m ³	0.602
Inhalation, Systemic effects, Acute	20 mg/m ³	0.243
Dermal, Systemic effects, Long Term	1.372 mg/kg bw/day	0.116
Combined routes, Systemic effects, Long Term		0.719
Contributing scenario controlling worker expos	ure: Roller application or brushing (PF	ROC 10)
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	3.61 mg/m ³	0.435
Inhalation, Systemic effects, Acute	3.61 mg/m ³	0.044
Dermal, Systemic effects, Long Term	5.486 mg/kg bw/day	0.465
Combined routes, Systemic effects, Long Term		0.9
Contributing scenario controlling worker expos	ure: Non industrial spraying (PROC 1	1)
Exposure route	Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term	0.398 mg/m ³	0.048
Inhalation, Systemic effects, Acute	0.398 mg/m ³	< 0.01
Dermal, Systemic effects, Long Term	10.71 mg/kg bw/day	0.908
Combined routes, Systemic effects, Long Term		0.956

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Contributing scenario controlling worker exposure: Treatment of articles by dipping and pouring (PROC 13)			
Exposure route		Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term		0.525 mg/m³	0.063
Inhalation, Systemic effects, Acute		0.525 mg/m ³	< 0.01
Dermal, Systemic effects, Long Ter	m	2.743 mg/kg bw/day	0.232
Combined routes, Systemic effects, Long Term			0.296
Contributing scenario controlling	worker exposu	e: Manual maintenance (cleaning and	repair) of machinery (PROC 28)
Exposure route		Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Term		0.525 mg/m³	0.063
Inhalation, Systemic effects, Acute		0.525 mg/m³	< 0.01
Dermal, Systemic effects, Long Term		2.743 mg/kg bw/day	0.232
Combined routes, Systemic effects,	Long Term		0.296
SECTION 4: 7.11 Guidance the ES		to DU to evaluate whether he works	inside the boundaries set by

Remarks on exposure data from external estimation tools:

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 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): No

- Regular inspection and maintenance (at least monthly): No

- 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).

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): No
- Regular inspection and maintenance (at least monthly): No

- 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 7.96 mg/m3, resulting in an exposure concentration of 0.398 mg/m3 due to the use of respiratory protection. 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:

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

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8.	Exposure Scenario 8: 5	Service life (worker at industrial site) - PU foams - Worker	s (industrial)	
SECTI	ON 1:	Title of exposure scenario		
Service life (worker at industrial site) - PU foams - Workers (industrial)				
	2	ng environmental exposure	1	
CS1	PU foams - Workers (in	dustrial)	ERC12a	
Contrib	outing scenario controllir	ng worker exposure	T	
CS2	Low energy manipulation	n of substances bound in materials and/or articles	PROC21	
CS3	High (mechanical) energy	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):	1	
ES5	Use at industrial sites - U	Use as additive in foams		
SECTI	ON 2:	Conditions of use		
2.1		Contributing scenario controlling environmental exposure 8.1 PU foams - Workers (industrial) (ERC 12a)	2:	
Amoun	t used, frequency and du	ration of use (or from service life)		
		ant for the assessment as scenario specific releases are estimate 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 m2 tion of the STP sludge on	3/day		
~ ~	-	ons affecting environmental exposure		
	ng surface water flow: >=			
2.2	ing surface water now. >=	Contributing scenario controlling worker exposure:		
2.2		8.2 Low energy manipulation of substances bound in material (PROC 21)	ls and/or articles	
Produc	t characteristics			
	age (w/w) of substance in a l form of the used product	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, Inhalatio Ianagement System: Advanced fectiveness, Inhalation: 0%, Dermal: 0%]	on: 0%]	
Conditi	ons and measures relate	d to personal protection, hygiene and health evaluation		
	tory protection: No [Effect protection: No [Effectiver			
Other g	given operational condition	ons affecting workers exposure		
	f use: Indoor ng temperature: <= 40 °C			
		Contributing scenario controlling worker exposure: 8.3 High (mechanical) energy work-up of substances bound is (PROC 24)	n materials and/or articles	
Produc	t characteristics			
	age (w/w) of substance in a l form of the used product	mixture/article: <= 100 % : Solid (medium dusty form)		
Freque	ncy and duration of use			

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Technical conditions and measure	s to control disp	persion from source toward	ds the work	ter
General ventilation: Basic general v Occupational Health and Safety Ma Local exhaust ventilation: No [Effec	nagement Systen	n: Advanced	veness, Inha	lation: 0%]
Conditions and measures related	to personal prot	ection, 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				
SECTION 3:	8.4 Exposure	estimation		
3.1. Environment			I	
Release		mation method	Explanat	
Water	Estimated re			ease rate: 0 kg/day
Air	Estimated re			ease rate: 0 kg/day
Non-Agricultural Soil	Estimated re			actor after on-site RMM: 0%
Protection target		Exposure concentration	1	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	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 ³		< 0.01
Man via Environment - Oral		Exposure via food consumption: 1.74E-4 mg/kg bw/day		< 0.01
Man via Environment – Combined routes				< 0.01
3.2. Worker				
Contributing scenario controlling	worker exposu	re: Mixing or blending in b	atch process	es (PROC 5)
Exposure route		Exposure estimate - Wo	rker	Risk quantification (RCR)
Inhalation, Systemic effects, Long	Гerm	3 mg/m ³		0.361
Inhalation, Systemic effects, Acute		12 mg/m ³		0.146
Dermal, Systemic effects, Long Ter	m	2.83 mg/kg bw/day		0.24
Combined routes, Systemic effects,	Long Term			0.601
Contributing scenario controlling non-dedicated facilities (PROC 8a)	worker exposu	re: Transfer of substance or	mixture (ch	arging and discharging) at
Exposure route		Exposure estimate - Worker		Risk quantification (RCR)
Inhalation, Systemic effects, Long	Гerm	1 mg/m ³		0.12
Inhalation, Systemic effects, Acute		4 mg/m ³		0.049
Dermal, Systemic effects, Long Ter	m	2.83 mg/kg bw/day		0.24
Combined routes, Systemic effects,	Long Term			0.36
SECTION 4:		to DU to evaluate whether	he works ii	nside the boundaries set by

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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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9.	Exposure Scenario 9:	Service life (worker at industrial site) - Intumescent coatings	s - Workers (industrial)			
SECTI	ON 1:	Title of exposure scenario				
		Service life (worker at industrial site) - Intumescent coatin	gs - Workers (industrial)			
Contrib	buting scenario controllin	ng environmental exposure	r			
CS1 Intumescent coatings - Workers (industrial) ERC12a			ERC12a			
Contrib	Contributing scenario controlling worker exposure					
CS2	Low energy manipulation	on of substances bound in materials and/or articles	PROC21			
CS3	High (mechanical) energy	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):				
ES6	Use at industrial sites - U	Use as additive in intumescent coatings				
SECTI	ON 2:	Conditions of use				
2.1		Contributing scenario controlling environmental exposure 9.1 Intumescent coatings - Workers (industrial) (ERC 12a)	:			
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 estimate				
Condition	ons and measures related t	o biological sewage treatment plant				
Dischar	cal STP: Standard [Effecti rge rate of STP: >= 2E3 mi tion of the STP sludge on	3/day				
Other g	given operational condition	ons affecting environmental exposure				
Receivi	ng surface water flow: >=	1.8E4 m3/day				
2.2		Contributing scenario controlling worker exposure: 9.2 Low energy manipulation of substances bound in materials (PROC 21)	s and/or articles			
Produc	t characteristics					
	age (w/w) of substance in l form of the used product	mixture/article: <= 100 % : Solid (medium dusty form)				
Freque	ncy and duration of use					
Duratio	n of activity: <= 8 h/day					
Technie	cal conditions and measu	res to control dispersion from source towards the worker				
Occupa	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%]					
Conditi	ions and measures relate	d to personal protection, hygiene and health evaluation				
	tory protection: No [Effec protection: No [Effective					
Other g	given operational condition	ons affecting workers exposure				
	Place of use: Indoor Operating temperature: <= 40 °C					
2.3 Contributing scenario controlling worker exposure: 9.3 High (mechanical) energy work-up of substances bound in materials and/or (PROC 24)		materials and/or articles				
Produc	t characteristics					
	age (w/w) of substance in l form of the used product	mixture/article: <= 100 % : Solid (medium dusty form)				
Freque	ncy and duration of use					
Duration of activity: <= 8 h/day						

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Technical conditions and measure	s to control disp	persion from source toward	ls the work	er	
General ventilation: Basic general ventilation: Basic general ventilation of Cocupational Health and Safety Man Local exhaust ventilation: No [Effect	nagement Systen	n: Advanced	veness, Inha	lation: 0%]	
Conditions and measures related t	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 condition	s affecting work	ters 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	lease rate	-	ase rate: 0 kg/day	
Air	Estimated re	lease rate		ease rate: 0 kg/day	
Non-Agricultural Soil	Estimated re	lease factor		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 - Inhalation (Systemic effects)		Concentration in air: 1.62E-21 mg/m ³		< 0.01	
Man via Environment - Oral		Exposure via food consumption: 1.74E-4 mg/kg bw/day		< 0.01	
Man via Environment – Combined routes				< 0.01	
3.2. Worker					
Contributing scenario controlling articles (PROC 21)	worker exposu	re: Low energy manipulatio	n of substa	nces bound in materials and/or	
Exposure route		Exposure estimate - Wo	rker	Risk quantification (RCR)	
Inhalation, Systemic effects, Long	lerm	3 mg/m ³		0.361	
Inhalation, Systemic effects, Acute		12 mg/m ³		0.146	
Dermal, Systemic effects, Long Ter	m	2.83 mg/kg bw/day		0.24	
Combined routes, Systemic effects,	Long Term			0.601	
Contributing scenario controlling materials and/or articles (PROC 24)		re: High (mechanical) energ	y work-up	of substances bound in	
Exposure route		Exposure estimate - Worker		Risk quantification (RCR)	
Inhalation, Systemic effects, Long	Term	1 mg/m ³		0.12	
Inhalation, Systemic effects, Acute		4 mg/m ³		0.049	
Dermal, Systemic effects, Long Ter	m	2.83 mg/kg bw/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	
Where other Risk Management Mea	sures/Operationa	al Conditions are adopted, the	en users sho	ould ensure that risks are	

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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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10. Exposure Scenario 2 SECTION 1:	10: Service life (professional worker) - Intumes	cent coatings - Professional Workers		
SECTION I:	Title of exposure scenario Service life (professional worker)	ervice life (professional worker) - Intumescent coatings - Professional Workers		
Contributing scenario contro	-	scent coatings - r roressionar workers		
5	0	EPC10a EPC11a		
C	- Professional Workers	ERC10a, ERC11a		
Contributing scenario contro		I DDOCO1		
CS2 Low energy manipulation of substances bound in materials and/or articles PROC21				
	ses leading to the inclusion of the substance into	o the article(s):		
	- Use as additive in intumescent coatings			
ES7 Widespread use by professional workers - Use as additive in intumescent coatings				
SECTION 2:	Conditions of use			
2.1	Contributing scenario controlling environm 10.1 Intumescent coatings - Professional Wor			
Amount used, frequency and	duration of use (or from service life)			
Daily local widespread use amo	ount: not relevant for the assessment as scenario s	pecific releases are estimated		
Conditions and measures relate	ed to biological sewage treatment plant			
Biological STP: Standard [Effe Discharge rate of STP: >= 2E3 Application of the STP sludge	m3/day			
Other given operational cond	litions affecting environmental exposure			
Receiving surface water flow:	>= 1.8E4 m3/day			
2.2	Contributing scenario controlling worker e 10.2 Low energy manipulation of substances 21)			
Product characteristics				
Percentage (w/w) of substance Physical form of the used produ	in mixture/article: <= 100 % uct: Solid (medium dusty form)			
Frequency and duration of us	se			
Duration of activity: <= 8 h/day	у			
Technical conditions and mea	asures to control dispersion from source toward	ds the worker		
Occupational Health and Safety	eral ventilation (1-3 air changes per hour) [Effectivy y Management System: Basic Effectiveness, Inhalation: 0%, Dermal: 0%]	veness, Inhalation: 0%]		
Conditions and measures rela	ated to personal protection, hygiene and health	evaluation		
Respiratory protection: No [Eff Dermal protection: No [Effecti				
Other given operational cond	litions affecting workers exposure			
Place of use: Indoor Operating temperature: <= 40 °	PC Sec			
	C 10.3 Exposure estimation			
Operating temperature: <= 40 °				
Operating temperature: <= 40 ° SECTION 3: 3.1. Environment		Explanations		
Operating temperature: <= 40 ° SECTION 3: 3.1. Environment	10.3 Exposure estimation	Explanations Local release rate: 0 kg/day		
Operating temperature: <= 40 ° SECTION 3: 3.1. Environment Release	10.3 Exposure estimation Release estimation method			
Operating temperature: <= 40 ° SECTION 3: 3.1. Environment Release Water	10.3 Exposure estimation Release estimation method Estimated release rate	Local release rate: 0 kg/day		

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Mél	amine

Englander		Least DEC: 5 OE 2 mg/	0.01
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 - Inhalation (Systemic effects)		Concentration in air: 1.62E-21 mg/m ³	< 0.01
Man via Environment - Oral		Exposure via food consumption: 1.74E-4 mg/kg bw/day	< 0.01
Man via Environment – Combined routes			< 0.01
3.2. Worker			
Contributing scenario controlling we articles (PROC 21)	orker exposu	re: Low energy manipulation of substa	nces bound in materials and/or
Exposure route		Exposure estimate - Worker	Risk quantification (RCR)
Inhalation, Systemic effects, Long Terr	n	5 mg/m ³	0.602
Inhalation, Systemic effects, Acute		20 mg/m ³	0.243
Dermal, Systemic effects, Long Term		2.83 mg/kg bw/day	0.24
Combined routes, Systemic effects, Long Term			0.842
	0.4 Guidance 1e ES	to DU to evaluate whether he works	inside the boundaries set by
Where other Risk Management Measur managed to at least equivalent levels. Guidance is based on assumed operatin	-	•	

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11	1. Exposure Scenario 11	: Ser	vice life (cons	umers) - PU foams – Cons	umers		
SECT	TON 1:	Tit	Fitle of exposure scenario				
		Ser	vice life (cons	sumers) - PU foams – Cons	umers		
Contri	ibuting scenario controlli	ng en	vironmental	exposure			
CS1 PU foams – Consumers					ERC10a, ERC11a		
Contri	ibuting scenario controlli	ng wo	orker exposu	re			
CS2	Use of articles containir	ng foa	m with encaps	sulated the substance		AC1, AC1a, AC 13, AC 13e	
Expos	sure scenario(s) of the uses	s lead	ling to the inc	lusion of the substance int	o the article	e(s):	
ES5	Use at industrial sites -	Use a	s additive in fo	oams			
SECT	TON 2:	Co	nditions of use	e			
			enario controlling environmental exposure: Consumers (ERC 10a, ERC 11a)				
Amou	nt used, frequency and du	iratio	on of use (or f	rom service life)			
Daily l	local widespread use amou	nt: no	ot relevant for	the assessment as scenario s	pecific relea	ses are estimated	
Condit	tions and measures related	to bio	logical sewage	e treatment plant			
Discha	gical STP: Standard [Effecti arge rate of STP: >= 2E3 m cation of the STP sludge on	3/day	7				
Other	given operational conditi	ons a	ffecting envir	conmental exposure			
Receiv	ving surface water flow: >=	1.8E	4 m3/day				
2.2 Contributing scenario controlling co 11.2 Use of articles containing foam w 13, AC13e)							
Produ	ect characteristics						
Exposi	ntage (w/w) of substance in ure via inhalation route: Inl ure via oral route: Oral exp	nalati	on exposure is	considered to be not releva	nt		
	TION 3:		11.3 Exposure				
3.1. Er	nvironment		-				
Releas	se		Release esti	mation method	Explanat	ions	
Water			Estimated re	1		ease rate: 0 kg/day	
Air			Estimated re			ease rate: 0 kg/day	
Non-A	Agricultural Soil		Estimated re	lease factor		actor after on-site RMM: 0%	
	ction target			Exposure concentration		Risk quantification (RCR)	
Fresh v				Local PEC: 5.0E-3 mg/l		0.01	
	entation (Fresh water)			Local PEC: 0.025 mg/kg dw		0.01	
Marine water				Local PEC: 5.0E-4 mg/l		0.01	
Marine			Local PEC: 2.4E-3 mg/kg dw		0.01		
	entation (Marine water)			LOCAL PEC: 2.4E-3 mg/kg			
Sedime	entation (Marine water) e Treatment Plant			Local PEC: 2.4E-3 mg/kg	5	< 0.01	
Sedime Sewage	ge Treatment Plant			Local PEC: 0 mg/l			
Sedime Sewage Agricu Man	e Treatment Plant Iltural soil via Environment - Inha	latior	n (Systemic			< 0.01	
Sedime Sewag Agricu Man effects	e Treatment Plant Iltural soil via Environment - Inha	latior	n (Systemic	Local PEC: 0 mg/l Local PEC: 2.52E-12 mg Concentration in air:	/kg dw	< 0.01 < 0.01	

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3.2. Consumer				
Contributing scenario controlling (AC1, AC1a, AC 13, AC13e)	consumer expo	sure: Use of articles containing foam w	ith encapsulated the substance	
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	to DU to evaluate whether he works	inside the boundaries set by	

Remarks on exposure data:

Migration study:

Explanation: The substance is used in foam mattresses, as a non-halogenated flame retardant. The European association of flexible polyurethane foam blocks manufacturers (EUROPUR) commissioned a migration study, to evaluate the potential exposure of humans from melamine used in flexible PU foam used in mattresses. The study was submitted to ECHA by EUROPUR, as part of their response to the public consultation on the CLH report for melamine dated November 2019 and can be found on the ECHA website.

Based on the vapour pressure of the substance and since mattresses are flat and not mouthed, inhalation and oral exposure are considered negligible, while potential dermal exposure is deemed the most relevant route of exposure due to the prolonged contact duration, with a large part of the body and the possible effect of sweat as a vehicle.

The migration of melamine into synthetic sweat soaked filter papers from these foams was investigated. As a mattress typically consists of a PUR foam core surrounded with a fabric layer, migration was investigated with and without the use of a polyester-polypropylene mattress cover placed between the foam and filter paper. The set-up was compressed to 70% of its depth in order to simulate a person sleeping on the mattress and incubated at 40°C for 2 hours.

When the foam was covered, a standard practice for every mattress with flexible PU foam, the migration was below the limit of detection (LOD) and LOD/2 was used as estimate for people sleeping directly on the mattress cover (0.6375 mg/kg bw/day for an adult and 1.484 for a baby). Note that this is a worst-case assessment as usually people don't sleep directly on the mattress cover but put additional sheets for additional mattress protection and comfort. When refined due to the use of additional sheets for mattress protection and comfort, the dermal exposure estimates were concluded to be 0.06375 for an adult and 0.1484 for a baby. Note that no melamine was detected when the mattress cover was included in the test set-up and that the calculations are therefore done based on the LOD/2.

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	TION 1:	Title	of exposure	scenario		
		Serv	ice life (cons	umers) - Intumescent coati	ing – Cons	umers
Contri	ibuting scenario controll	ing env	vironmental e	exposure		
CS1	Intumescent coating –	Consun	ners	-		ERC10a, ERC11a
Contri	ibuting scenario controll	ing wo	rker exposur	e		
CS2	Use of articles with int	umesce	nt coating wit	th encapsulated the substanc	e	AC13
Expos	sure scenario(s) of the use	es leadi	ng to the incl	usion of the substance into) the articl	e(s):
ES6	Use at industrial sites -	Use as	additive in in	tumescent coatings		
ES7	Widespread use by pro	fession	al workers - U	Jse as additive in intumescen	nt coatings	
SECT	TION 2:	Con	ditions of use			
2.1				enario controlling environmental exposure: coating – Consumers (ERC 10a, ERC 11a)		
Amou	int used, frequency and d	uratio	n of use (or fi	rom service life)		
Daily l	local widespread use amou	ınt: not	relevant for t	he assessment as scenario sp	pecific relea	uses are estimated
Condit	tions and measures related	to biol	ogical sewage	e treatment plant		
Discha	gical STP: Standard [Effect arge rate of STP: >= 2E3 n cation of the STP sludge on	n3/day				
Other	given operational condit	ions af	fecting envir	onmental exposure		
Receiv	ving surface water flow: >=	= 1.8E4	m3/day			
2.2		Contributing scenario controlling consumer exposure: 12.2 Use of articles with intumescent coating with encapsulated the substance (AC				
Produ	ct characteristics					
Exposı Exposı	ntage (w/w) of substance ir ure via inhalation route: In ure via dermal route: Dern ure via oral route: Oral exp	halation	n exposure is osure assume	considered to be not relevar d to be negligible	nt	
SECT	TION 3:	1/		to be not relevant		
		L	2.3 Exposure			
3.1. Er	nvironment	I.	2.3 Exposure			
					Explanat	ions
	se			estimation	-	ions ase rate: 0 kg/day
Releas	se		Release estin	estimation nation method ease rate	Local rele	
Releas Water Air	se		Release estin Estimated rel	estimation mation method lease rate lease rate	Local rele	ease rate: 0 kg/day
Releas Water Air Non-A	se		Release estin Estimated rel Estimated rel	estimation mation method lease rate lease rate	Local rele Local rele Release fa	ease rate: 0 kg/day ease rate: 0 kg/day
Releas Water Air Non-A Protec	se Agricultural Soil ction target		Release estin Estimated rel Estimated rel	estimation nation method ease rate ease factor	Local rele Local rele Release fa	ease rate: 0 kg/day ease rate: 0 kg/day actor after on-site RMM: 0%
Releas Water Air Non-A Protec Fresh v	se Agricultural Soil ction target		Release estin Estimated rel Estimated rel	estimation nation method lease rate lease rate lease factor Exposure concentration	Local rele Local rele Release fa	ease rate: 0 kg/day ease rate: 0 kg/day actor after on-site RMM: 0% Risk quantification (RCR)
Releas Water Air Non-A Protec Fresh v Sedimo	se Agricultural Soil ction target water		Release estin Estimated rel Estimated rel	estimation nation method lease rate lease rate lease factor Exposure concentration Local PEC: 5.0E-3 mg/l	Local rele Local rele Release fa	ease rate: 0 kg/day ease rate: 0 kg/day actor after on-site RMM: 0% Risk quantification (RCR) 0.01
Releas Water Air Non-A Protec Fresh v Sedimo Marine	se Agricultural Soil ction target water entation (Fresh water)		Release estin Estimated rel Estimated rel	estimation mation method lease rate lease rate lease factor Exposure concentration Local PEC: 5.0E-3 mg/l Local PEC: 0.025 mg/kg d	Local rele Local rele Release fa	ease rate: 0 kg/day ease rate: 0 kg/day actor after on-site RMM: 0% Risk quantification (RCR) 0.01 0.01
Releas Water Air Non-A Protec Fresh v Sedimo Marine Sedimo	se Agricultural Soil ction target water entation (Fresh water) e water		Release estin Estimated rel Estimated rel	estimation mation method lease rate lease rate lease factor Exposure concentration Local PEC: 5.0E-3 mg/l Local PEC: 0.025 mg/kg d Local PEC: 5.0E-4 mg/l	Local rele Local rele Release fa	ease rate: 0 kg/day ease rate: 0 kg/day actor after on-site RMM: 0% Risk quantification (RCR) 0.01 0.01 0.01
Releas Water Air Non-A Protec Fresh v Sedima Sedima Sedima	Agricultural Soil ction target water entation (Fresh water) e water entation (Marine water)		Release estin Estimated rel Estimated rel	estimation mation method lease rate lease rate lease factor Exposure concentration Local PEC: 5.0E-3 mg/l Local PEC: 5.0E-4 mg/l Local PEC: 2.4E-3 mg/kg	Local rele Local rele Release fa dw	ease rate: 0 kg/day ease rate: 0 kg/day eactor after on-site RMM: 0% Risk quantification (RCR) 0.01 0.01 0.01 0.01
Releas Water Air Non-A Protec Fresh v Sedimo Sedimo Sedimo Sewag Agricu Man	se Agricultural Soil ction target water entation (Fresh water) e water entation (Marine water) ge Treatment Plant altural soil via Environment - Inha		Release estin Estimated rel Estimated rel Estimated rel	estimation mation method lease rate lease rate lease factor Exposure concentration Local PEC: 5.0E-3 mg/l Local PEC: 0.025 mg/kg Local PEC: 5.0E-4 mg/l Local PEC: 2.4E-3 mg/kg Local PEC: 0 mg/l	Local rele Local rele Release fa dw	ease rate: 0 kg/day ease rate: 0 kg/day actor after on-site RMM: 0% Risk quantification (RCR) 0.01 0.01 0.01 0.01 < 0.01
Releas Water Air Non-A Protec Fresh v Sedimo Sedimo Sewag Agricu Man effects	se Agricultural Soil ction target water entation (Fresh water) e water entation (Marine water) ge Treatment Plant altural soil via Environment - Inha		Release estin Estimated rel Estimated rel Estimated rel	estimation mation method lease rate lease rate lease factor Exposure concentration Local PEC: 5.0E-3 mg/l Local PEC: 5.0E-4 mg/l Local PEC: 2.4E-3 mg/kg Local PEC: 0 mg/l Local PEC: 0 mg/l Local PEC: 2.52E-12 mg/ Concentration in air:	Local rele Local rele Release fa dw	ease rate: 0 kg/day ease rate: 0 kg/day actor after on-site RMM: 0% Risk quantification (RCR) 0.01 0.01 0.01 0.01 < 0.01 < 0.01 < 0.01

Annexe à la fiche de données de sécurité étendue Page : 76 - 76 (eSDS)

Mélamine

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. 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.