

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 02.02.2021

Version No: 6

Revision: 01.02.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** **Urea Formaldehyde Concentrate - UFC-85**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:**
For treatment of urea and as resins, adhesives in particle board, plywood and insulating materials, press fabric film, leather, ceramics, insulation foam, stabilizer in Gasoline, corrosion inhibitor and in Medicines.
- **Uses advised against:** No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Gulf Formaldehyde Co
P.O. Box 50001, Mesaieed, Qatar
Tel.: (+974) 44228888
Fax: (+974) 44770347
Email: mktg@qafco.com.qa
- **1.4 Emergency telephone number:**
For Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-741-5970 and +1-703-527-3887 (collect calls accepted)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 - Acute Tox. 4 H302 Harmful if swallowed.
 - Acute Tox. 3 H311 Toxic in contact with skin.
 - Acute Tox. 3 H331 Toxic if inhaled.
 - Skin Corr. 1B H314 Causes severe skin burns and eye damage.
 - Eye Dam. 1 H318 Causes serious eye damage.
 - Skin Sens. 1 H317 May cause an allergic skin reaction.
 - Carc. 2 H351 Suspected of causing cancer.
 - STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 - T; Toxic
 - R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
 - C; Corrosive
 - R34: Causes burns.
 - Xn; Harmful
 - R40: Limited evidence of a carcinogenic effect.
 - Xi; Irritant
 - R37: Irritating to respiratory system.
 - Xi; Sensitising
 - R43: May cause sensitisation by skin contact.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

(Contd. on page 2)

GB

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 02.02.2021

Version No: 6

Revision: 01.02.2021

Trade name: Urea Formaldehyde Concentrate - UFC-85

(Contd. of page 1)

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



· **Signal word Danger**

· **Hazard-determining components of labelling:**

formaldehyde

· **Hazard statements**

- H302 Harmful if swallowed.
- H311+H331 Toxic in contact with skin or if inhaled.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· **Precautionary statements**

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** No
- **vPvB:** No

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description:**

CAS: 57-13-6	urea	23 - 26%
EINECS: 200-315-5		
CAS: 7732-18-5	water, distilled, conductivity or of similar purity	15 - 20%
EINECS: 231-791-2		

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31










Printing date: 02.02.2021

Version No: 6

Revision: 01.02.2021

Trade name: Urea Formaldehyde Concentrate - UFC-85

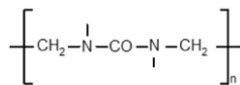
(Contd. of page 2)

· Dangerous components:		
CAS: 50-00-0	formaldehyde	56 - 61%
EINECS: 200-001-8	 T R23/24/25;  C R34;  Xn R40;  Xi R43	
Index number: 605-001-00-5	Carc. Cat. 3	
	 Acute Tox. 3, H301;  Acute Tox. 3, H311;  Acute Tox. 3, H331;	
	 Carc. 2, H351;  Skin Corr. 1B, H314;  Skin Sens. 1, H317	

· **Additional information:**

For the wording of the listed risk phrases refer to section 16.

Urea - Formaldehyde concentrate (mixture of methylolurea and Formaldehyde)



SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Take affected persons out of danger area and lay down.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical treatment.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Induce vomiting and call for medical help.

· **4.2 Most important symptoms and effects, both acute and delayed**

Headache

Disziness

Nausea

Gastric or intestinal disorders

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents: Water with full jet**

· **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 02.02.2021

Version No: 6

Revision: 01.02.2021

Trade name: Urea Formaldehyde Concentrate - UFC-85

(Contd. of page 3)

Carbon monoxide

Carbon dioxide

Nitrogen oxides (NO_x)

Formaldehyde, Ammonia & Formic Acid

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Use neutralising agent.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· **Information about fire and explosion protection:** Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

· **Information about storage in one common storage facility:** Store away from oxidising agents.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store receptacle in a well ventilated area.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Protect from frost.

· **7.3 Specific end use(s)** No further relevant information available.

GB

(Contd. on page 5)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date: 02.02.2021

Version No: 6

Revision: 01.02.2021

Trade name: Urea Formaldehyde Concentrate - UFC-85

(Contd. of page 4)

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

50-00-0 formaldehyde (56-61%)

WEL	Short-term value: 2.5 mg/m ³ , 2 ppm Long-term value: 2.5 mg/m ³ , 2 ppm
-----	---

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Do not eat, drink or smoke when using this product.

Immediately remove all soiled and contaminated clothing.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter B2

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

Neoprene gloves

PVC gloves

Rubber gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

GB

(Contd. on page 6)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date: 02.02.2021

Version No: 6

Revision: 01.02.2021

Trade name: Urea Formaldehyde Concentrate - UFC-85

(Contd. of page 5)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Liquid
Colour:	Colourless
· Odour:	Pungent
· Odour threshold:	Not determined.
· pH-value at 25 °C:	7.5 - 8.2
· Change in condition	
Melting point/Melting range:	-20 - -30 °C
Boiling point/Boiling range:	~ 100 °C
· Flash point:	Not determined.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	7.0 Vol %
Upper:	73.0 Vol %
· Oxidising properties	No
· Vapour pressure at 20 °C:	23 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** Danger of polymerisation.
- **10.4 Conditions to avoid** Keep away from heat and direct sunlight.
- **10.5 Incompatible materials:**
Reacts with acids, alkalis and oxidising agents.
Amines

(Contd. on page 7)

GB

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date: 02.02.2021

Version No: 6

Revision: 01.02.2021

Trade name: Urea Formaldehyde Concentrate - UFC-85

(Contd. of page 6)

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

50-00-0 formaldehyde

Oral	LD50	>200 mg/kg (Rat)
------	------	------------------

57-13-6 urea

Oral	LD50	8471 mg/kg (Rat)
------	------	------------------

· **Primary irritant effect:**

· **on the skin:** Caustic effect on skin and mucous membranes.

· **on the eye:** Strong caustic effect.

· **Sensitisation:** Sensitisation possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Toxic

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carc. 2

IARC-2A

OSHA & NOISH-X

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **12.2 Persistence and degradability** biodegradable

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** No

· **vPvB:** No

· **12.6 Other adverse effects** No further relevant information available.

GB

(Contd. on page 8)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 02.02.2021

Version No: 6

Revision: 01.02.2021


Trade name: Urea Formaldehyde Concentrate - UFC-85

(Contd. of page 7)

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Must be specially treated adhering to official regulations.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA 	UN2209
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA 	2209 FORMALDEHYDE SOLUTION FORMALDEHYDE SOLUTION
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG, IATA <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> · Class · Label 	8 Corrosive substances. 8
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	III
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Segregation groups 	Warning: Corrosive substances. 80 F-A,S-B Acids
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: 	No further relevant information available.
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · ADR · Tunnel restriction code 	E
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN2209, FORMALDEHYDE SOLUTION, 8, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

GB

(Contd. on page 9)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 02.02.2021

Version No: 6

Revision: 01.02.2021

Trade name: Urea Formaldehyde Concentrate - UFC-85

(Contd. of page 8)

SECTION 16: Other information

Disclaimer clause

The information published in this Material Safety Data Sheet has been compiled from our experience and data presented by the European Fertilizer Manufacturing Association (EFMA). It is the user's responsibility to determine the accuracy or suitability of this information. We reserve the right to revise Material Safety Data Sheets periodically, as new information becomes available. We assume no responsibility for the accuracy or suitability of such information for application to the purchaser's intended purpose or for consequences of its use. Adoption of necessary safety precautions, for any intended usage, shall remain the user's responsibility.

Relevant phrases

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H331 Toxic if inhaled.
- H351 Suspected of causing cancer.
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R34 Causes burns.
- R40 Limited evidence of a carcinogenic effect.
- R43 May cause sensitisation by skin contact.

Department issuing SDS:

- Production Deptt.
- QAFCO Fertiliser Company
- P.O. Box 50001, Mesaieed, Qatar
- Tel.: (+974) 44228888
- Fax: (+974) 44770347

Abbreviations and acronyms:

- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships
- IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- UN: United Nations (also UNO: United Nations Organization)
- NOEC: No Observed Effect Concentration
- OECD: Organisation for Economic Co-operation and Development
- ASTM: American Society for Testing and Materials
- WAF: Water Accommodated Fraction
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 3: Acute toxicity, Hazard Category 3
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
- Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
- Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
- Carc. 2: Carcinogenicity, Hazard Category 2
- STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

*** Data compared to the previous version altered.**