

## SAFETY DATA SHEET

### UREA FORMALDEHYDE CONCENTRATE (UFC 85)

#### SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b> UREA FORMALDEHYDE CONCENTRATE	<b>Company Name:</b>	Gameron Petro Industry Complex
<b>Synonym:</b> UF 85	<b>P. O. Box:</b>	1516663137
<b>UN No:</b> 2209	<b>Website:</b>	www.gameron.ir
<b>CAS#:</b> Not applicable	<b>Telephone:</b>	+98-021-88878254
<b>Hazchem Code:</b> 1Z.	<b>Fax:</b>	+98-021-88878152
<b>RTECS:</b> Not applicable	<b>Emergency Phone:</b>	+98-021-88785579
		+98-076-32560480

#### SECTION II: HAZARDS IDENTIFICATION

##### Classification system:

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

##### Label elements

##### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation



**Signal Word** Danger

##### Hazard-determining components of labelling:

formaldehyde

##### Hazard statement(s)

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H335-H336	May cause cancer respiratory irritation. May cause drowsiness or dizziness

##### Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapors/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 to an approved waste disposal plant.

### SECTION 3: Composition/information on ingredients

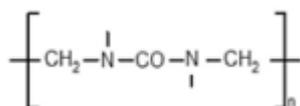
#### Mixtures

Synonyms : UF 85

Component	Classification	Concentration
<b>formaldehyde</b>		
CAS-No. 50-00-0	formaldehyde T R23/24/25; C R34; Xn R40; Xi R43 Carc. Cat. 3	56 - 61%
EC-No. 200-001-8	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;	
Index-No. 605-001-00-x	Carc. 2, H351; Skin Corr. 1B, H314; Skin Sens. 1, H317	
<b>Urea</b>		
CAS-No. 57-13-6	Urea	23-26 %
EC-No. 200-315-5		
<b>water, distilled, conductivity or of similar purity</b>		
CAS-No. 7732-18-5		15-20 %
EC-No. 231-791-2		

#### Additional information:

For the wording of the listed risk phrases refer to section 16. Urea - Formaldehyde concentrate (mixture of methylol urea and Formaldehyde)



### SECTION 4: First aid measures

#### Description of first-aid measures

##### General advice

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.

**If inhaled**

After inhalation: Supply fresh air or oxygen; call for doctor. In case of unconsciousness place patient stably in side position for transportation.

**In case of skin contact**

Immediately rinse with water. If skin irritation continues, consult a doctor.

**In case of 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.

**If swallowed**

After swallowing: Rinse out mouth and then drink plenty of water.  
Induce vomiting and call for medical help.

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

Headache  
Dizziness  
Nausea  
Gastric or intestinal disorders

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

No further relevant information available

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions

**Unsuitable extinguishing media**

Water with full jet

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

In case of fire, the following can be released:

Carbon monoxide  
Carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Formaldehyde, Ammonia & Formic Acid

**Advice for firefighters**

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

**Additional information**

Cool endangered receptacles with water spray.  
Collect contaminated firefighting water separately. It must not enter the sewage system.

## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Wear protective equipment. Keep unprotected persons away

### **Environmental precautions**

Dilute with plenty of water.

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

### **Methods and materials for containment and cleaning up**

Ensure adequate ventilation.

Use neutralizing agent.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

### **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**

### **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

### **Conditions for safe storage, including any incompatibilities**

#### **Storage conditions**

**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

### **Specific end use(s)**

No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

#### **Ingredients with limit values that require monitoring at the workplace**

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

WELL Short-term value: 2.5 mg/m<sup>3</sup>, 2ppm

Long-term value: 2.5 mg/m<sup>3</sup>, 2ppm

## 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/face protection



Tightly sealed goggles

### Body Protection

Protective work clothing

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

A) Appearance	Form: liquid, clear Color: colorless
B) Odor	pungent
C) Odor Threshold	No data available
D) pH at 25°C	7.5-8.2
E) Melting point/ Melting range	-30--20°C
f) Boiling point/ boiling range	100 °C
g) Flash point	No data available
H) Flammability (solid, gas)	not applicable
I) Upper/lower flammability or explosive limits	7.0 Vol% 73 Vol%
J) Vapor pressure at 20°C	23 hPa
K) Density	No data available
L) Vapor density	No data available
M) Relative density	No data available
N) Water solubility	Fully miscible
O) Partition coefficient (n-octanol/water)	No data available
P) Auto ignition temperature	430 °C
Q) Decomposition temperature	No data available
R) Viscosity	No data available
S) Self-ignited	Product is not self-igniting
T) Oxidizing properties	No

**Other information** No further relevant information available.

## SECTION 10: Stability and reactivity

### Reactivity

#### Chemical stability

No decomposition if used and stored according to specifications.

#### Possibility of hazardous reactions

**Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.

**Possibility of hazardous reactions** Danger of polymerization.

**Conditions to avoid** Keep away from heat and direct sunlight

**Incompatible materials:**

Reacts with acids, alkalis and oxidizing agents. Amines

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

## **SECTION 11: Toxicological information**

### **Information on toxicological effects Mixture**

#### **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. ·

**Sensitization:** Sensitization 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 (carcinogenetic, mutagenicity and toxicity for reproduction)**

Carc. 2

IARC-2A

OSHA & NOISH-X

## **SECTION 12: Ecological information**

### **Toxicity**

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

### **Persistence and degradability**

Biodegradable

### **Bio accumulative potential**

No further relevant information available

### **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. ·

**Results of PBT and vPvB assessment ·**

**PBT:** No ·

**vPvB:** No ·

**Other adverse effects** No further relevant information available

**SECTION 13: Disposal considerations**

**Waste treatment methods**

**Recommendation:** Must be specially treated adhering to official regulations.

**Uncleansed packaging**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

**UN Number**

**ADR, IMDG, IATA** UN2209

**UN proper shipping name**

**ADR** 2209 Formaldehyde solution

**IMDG, IATA** Formaldehyde solution

**Transport hazard class(es)**

**ADR, IMDG, IATA**



**Class** 8 Corrosive substances

**Label** 8

**Packing group**

**ADR, IMDG, IATA** III

**Environmental hazards:**

**Marine pollutant:** No

**Special precautions for user**

**Danger code (Kemler):** 80

**EMS Number:** F-A, S-B

**Segregation groups** Acids

**Transport in bulk according to Annex**

**II of MARPOL73/78 and the IBC Code:** No further relevant information available.

**Transport/Additional information:**

**ADR**

**Tunnel restriction code** E

**UN "Model Regulation":** UN2209, FORMALDEHYDE SOLUTION, 8, III

**SECTION 15: Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

Version: 5      Revision Date: 04/02/2018      Gulf Formaldehyde Co.