



Product Name: Urea CAS No.: 57-13-6 Version: 0

1. Identification

Product Code : 90267, 90585

Company Name : Advent Chembio Private Limited

Address : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR

ROAD, RABALE, NAVI MUMBAI - 400 701.

E-mail : info@adventchembio.com

WEBSITE : www.adventchembio.com

Company Phone Number: 022-27690837

2. Composition/Information on Ingredients

IngredientCAS NoPercentUREA57-13-699- 100%

3. Hazards Identification

Hazard classification

Health hazards

Germ cell mutagenicity : Category 2 Specific target organ toxicity - single : Category 3

exposure

Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2

Unknown toxicity

Acute toxicity, dermal : 100 %
Acute toxicity, inhalation, vapor : 100 %
Acute toxicity, inhalation, dust or mist : 100 %

Unknown toxicity

Acute hazards to the aquatic : 0 %

environment

Chronic hazards to the aquatic : 100 %

environment Labels elements Hazard symbol



Signal word : Warning

Hazard statement: Causes serious eye irritation.

Suspected of causing genetic defects. May cause drowsiness or dizziness.





Product Name: Urea CAS No.: 57-13-6 Version: 0

Precautionary statement

Prevention: Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Avoid breathing

dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Wash

thoroughly after handling. .

Response: IF exposed or concerned: Get medical advice/attention. IF IN EYES:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

: Store locked up. Store in a well-ventilated place. Keep container

tightly closed.

Disposal Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

Other hazards which do not result

in GHS classification

Storage

: None.

4. First Aid Measures

General information : Get medical advice/attention if you feel unwell. If medical advice is

needed, have product container or label at hand. Show this safety

data sheet to the doctor in attendance.

Ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you

feel unwell.

Inhalation: Move to fresh air. Get medical attention if symptoms persist.

Skin contact : Wash skin thoroughly with soap and water. Get medical attention if

irritation persists after washing. Remove contaminated clothing and

shoes. Wash contaminated clothing before reuse.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If

easy to do, remove contact lenses. Get medical attention

immediately.

Most important symptoms/effects,

acute and delayed

Indication of immediate medical

attention and special treatment

needed

: Causes serious eye irritation. Narcotic effect.

Treat symptomatically. Symptoms may be delayed.





Product Name: Urea CAS No.: 57-13-6 Version: 0

5. Fire fighting measures

General fire hazards : In the event of an explosion there is risk of ignition of surrounding

materials and possible danger of flying metallic fragmentation.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media : None known

Specific hazards arising from the

chemical

None known.

Special protective equipment and precautions for firefighters

Special fire fighting procedures : Move containers from fire area if you can do so without risk. Use

water spray to keep fire-exposed containers cool.

Special protective equipment for

fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unauthorized personnel away. Use personal protective equipment. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up

Shovel up and place in a container for salvage or disposal. Clean surface thoroughly to remove residual contamination. Avoid dust formation.

Notification Procedures

: Inform authorities if large amounts are involved.

Environmental precautions: Prevent further leakage or spillage if safe to do so.

7. Handling and Storage

Precautions for safe handling

: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Avoid inhalation of dust and vapors. Do not taste or swallow. Wash hands thoroughly after handling. Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities

: Keep container tightly closed. Keep in a cool, well-ventilated place.

Store in a dry place.





Product Name: Urea CAS No.: 57-13-6 Version: 0

8. Exposure Controls Personal Protection

Control parameters

Occupational exposure limits : None of the components have assigned exposure limits

Appropriate engineering controls : No data available.

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be

used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation

equipment.

Eve/face protection: Wear safety glasses with side shields (or goggles).

Hand protection : Chemical resistant gloves.

Other : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation use suitable respirator. Air-purifying

respirator with a high efficiency particulate filter.

Hygiene measures : Provide eyewash station and safety shower. Observe good industrial

hygiene practices. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using the product.

Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Appearance : White Solid Crystals or powder.

Odor : Ammoniacal odor pH : 7.2 (10% solution)

Melting point/freezing point : 132.7 °C **Initial boiling point and boiling** : Decomposes

range

Flash Point : Not applicable
Vapor pressure : No data available.
Vapor density : No data available.
Relative density : 1.32 (20 °C)
Solubility in water : Soluble

Solubility (other) : No data available.

Formula : CH4N2O Molecular Weight : 60.06 g/mol





CAS No.: 57-13-6 Version: 0 Product Name: Urea

10. Stability and Reactivity

Reactivity No dangerous reaction known under conditions of normal use.

Chemical stability Material is stable under normal conditions. Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Excessive heat.

Incompatible materials Strong oxidizing agents. Chlorinated compounds.

Thermal decomposition may produce oxides of carbon and nitrogen. **Hazardous decomposition products**

ammonia.

11. Toxicological Information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation May cause central nervous system effects.

Skin contact May cause irritation. Causes eye irritation. Eye contact

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product LD 50 (Rat): 8,471 mg/kg.

Dermal Product No data available. **Inhalation Product** No data available. **Repeated dose toxicity Product** No data available. Skin corrosion/irritation Product May cause skin irritation.

Serious eye damage/eye irritation

Respiratory or skin sensitization

Product

Not a skin sensitizer.

Product

Carcinogenicity Product This substance has no evidence of carcinogenic properties.

IARC Monographs on the

Evaluation of Carcinogenic Risks

to Humans DIOXANE

US. National Toxicology Program

(NTP) Report on Carcinogens

DIOXANE

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-

1050

Germ cell mutagenicity

In vitro Product Suspected of causing genetic defects.

No carcinogenic components identified.

No carcinogenic components identified.

No carcinogenic components identified.

Causes serious eye irritation.





Product Name: Urea **CAS No.:** 57-13-6 Version: 0

None known.

In vivo Product Suspected of causing genetic defects. **Reproductive toxicity Product** No components toxic to reproduction. Narcotic effect.

Specific target organ toxicity single exposure Product

Specific target organ toxicity repeated exposure Product

Aspiration hazard Product

Not classified Other effects No data available.

12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment:

Fish Product No data available. **Aquatic invertebrates Product** No data available.

Chronic hazards to the aquatic environment:

No data available. **Fish Product** No data available. **Aquatic invertebrates Product Toxicity to Aquatic Plants Product: :** No data available.

Persistence and degradability

Biodegradation Product The product is moderately biodegradable.

No data available. **BOD/COD** ratio Product

Bioaccumulative potential

No data available on bioaccumulation. **Bioconcentration factor (BCF)**

Product

Partition coefficient n-octanol /

water (log Kow) Product

Mobility in soil No data available.

Other adverse effects The product components are not classified as environmentally

Log Kow: -2.11

hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on

the environment.

13. Disposal consideration

Discharge, treatment, or disposal may be subject to national, state, **Disposal instructions**

or local laws.

Contaminated packaging Since emptied containers retain product residue, follow label

warnings even after container is emptied.





Product Name: Urea CAS No.: 57-13-6 Version: 0

14. Transport Information

	UN No.	UN proper shipping name	Hazard	Packaging	Marine Pollutant
			Class(es)	group	
DOT			Not Regulated		
IMDG			Not Regulated		
IATA			Not Regulated		
			C		

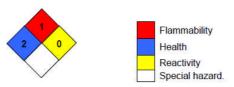
15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. Other Information

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date:01/08/2014

Version : 0

Disclaimer: This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. ADVENT CHEMBIO PRIVATE LIMITED makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the technical instructor in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of ADVENT CHEMBIO PRIVATE LIMITED and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).