



SAFETY DATA SHEET

Page : 1

Revision nr : 5

Date : 16/6/2005

Supersedes : 9/6/2005

Urea solution 32,5%

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Commercial Product Name : Urea solution 32,5%
Use of the Substance/Preparation : Urea solution 32,5 %
Company : Dureal TM a division of Univar N.V.
Blaak 333
3011 GB Rotterdam
Nederland
Tel: +31 10 275 7822
Emergency telephone number : +800 2436 2255 or +61 3 9573 3112

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation : Liquid

Substance name	Value(s)	CAS No / EC No / EC Index	Symbol(s)	R-Phrase(s)
<u>Urea</u>	: 32.5 %	57-13-6 / 200-315-5 / -----		
<u>Water</u>	: 67.5 %	7732-18-5 / 231-791-2 / -----	-	-
Classification	: Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC.			

3. HAZARDS IDENTIFICATION

Most important hazards : The product contains no substances classified as hazardous to health in concentrations which should be taken into account according to EC directive. May cause skin irritation in susceptible persons.
Inhalation : Inhalation of aerosol may cause irritation to the upper respiratory tract.
Skin contact : Prolonged skin contact may cause skin irritation.
Eye contact : Repeated or prolonged exposure may cause irritation of eyes and skin.
Ingestion : Gastrointestinal discomfort
Environmental properties : No information available

4. FIRST AID MEASURES

First aid measures

Inhalation : Oxygen or artificial respiration if needed.
Keep at rest.
Move to fresh air.
Obtain medical attention.
Skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and water.
If symptoms persist, call a physician.
Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion : If possible drink milk afterwards.
Clean mouth with water and drink afterwards plenty of water.
Do not induce vomiting.
Obtain medical attention.
Protection of first-aiders : No special precautions required
Notes to physician : Treat symptomatically.



SAFETY DATA SHEET

Page : 2

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5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use dry chemical, CO₂, water spray or alcohol resistant foam.
- Extinguishing media which must not be used for safety reason : None
- Specific hazards : The product is not flammable nor combustible.
Contaminated equipment (brushes, rags) must be cleaned immediately with water.
Burning produces obnoxious and toxic fumes. CO, CO₂, NO_x
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Cool containers / tanks with spray water.
- Special protective equipment for firefighters : Wear personal protective equipment.
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Sweep-up to prevent slipping hazard.
Avoid inhalation of gases.
Evacuate personnel to safe areas.
Avoid contact with skin and eyes. Wear personal protective equipment.
- Environmental precautions : Prevent product from entering drains.
- Methods for cleaning up : Clean contaminated surface thoroughly.
Dam up.
adsorption in inert material (e.g. sand, kieselguhr, acid binder, universal binder, sawdust)
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations

7. HANDLING AND STORAGE

- Storage : Handle in accordance with good industrial hygiene and safety practice for diagnostics.
Incompatible with strong acids and oxidising agents.
Keep in properly labelled containers.
Keep tightly closed in a dry, cool and well-ventilated place.
polyethylene containers
- Handling : impervious gloves
Wear personal protective equipment.
When using, do not eat, drink or smoke.
Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and immediately after handling the product.
Ensure adequate ventilation.
- Specific use(s) : No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protective equipment : Use only in an area equipped with a safety shower.
- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
- Hand protection : Butylrubber
- Skin and body protection : Protective suit
- Eye protection : Face-shield
Safety glasses (EN166)
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: Clear
Odour	: None
pH	: (conc. 10 %) 9,8 - 10,0
Boiling point/range	: No data available
Freezing point	: -11°C
Flash point	: Not applicable
Evaporation rate	: No data available
Vapour density	: No data available
Solubility in other solvents	: No data available
Autoignition temperature	: Not applicable
Explosive properties	: Protect from contamination. : Strong acids , nitrates Exothermic reaction with strong acids - Vapours may form explosive mixture with air.
Oxidising properties	: No data available
Vapour pressure	: ca. 48 mm Hg @ 40 °C
Water solubility	: Soluble
Viscosity	: No data available
Partition coefficient (n-octanol/water)	: No data available
Density	: 1090 kg/m ³ @ 20°C

10. STABILITY AND REACTIVITY

Stability	: Stable at normal conditions
Hazardous decomposition products	: Ammonia gas may be liberated at high temperatures. Burning produces obnoxious and toxic fumes. Possible decomposition products are: Carbon oxides , Nitrogen oxides (NOx) .
Materials to avoid	: reacts strongly with nitrites calcium hypochlorite, nitrates Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. sodium hypochlorite
Conditions to avoid	: Keep at temperatures above 50 °C.

11. TOXICOLOGICAL INFORMATION

Inhalation	: May cause irritation of respiratory tract.
Skin contact	: Irritating to skin.
Eye contact	: Irritating to eyes.
Ingestion	: Ingestion may cause irritation to mucous membranes.
Chronic toxicity	: No information available
LD50/oral/rat	: >2000 mg/kg

12. ECOLOGICAL INFORMATION

Bioaccumulation	: Low potential
Ecotoxicity effects	: Acute fish toxicity = LC 50 : >10000 mg/l 48 h (gold fish)
Mobility	: Soluble
Persistence and degradability	: Readily biodegradable



SAFETY DATA SHEET

Page : 4

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13. DISPOSAL CONSIDERATIONS

- Contaminated packaging : Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.
- Waste from residues : Can be landfilled, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.
Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

- ADR/RID : Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

- Labelling : 76/116/EC
The product is non-dangerous in accordance with Directive 1999/45/EC.
- Symbol(s):
- R-phrase(s)
- S-phrase(s) : S24 - Avoid contact with the skin.

The contents and format of this SDS are in accordance with EEC Commission Directive 2001/58/EC, 1999/45/EC, 1967/548/EC.

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