

SAFETY DATA SHEET - SDS

Date: 2025-01-08

No: 01

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

Product Name: Urea solution 32,5% in water DEF (Diesel Exhaust Fluid) AUS 32 Urea Solution

Company: Figure Eight Enterprises Pty Ltd

Address: Unit 3/7-9 Seville St, Fairfield East, NSW 2165 Australia

Tel: 1300 106 220

Emergency telephone number: Poisons Information Centre Call 13 11 26

Product Code: 10 L with Spout - DEFTAP/10L, 1L Drum - DEFTAP/1L, 20L without spouty - ADEF20, 1000L IBC - DEF/1000

2. COMPOSITION/INFORMATION ON INGREDIENS

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

Urea

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.
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	Oxygen or artificial respiration if needed. Keep at rest. Move to fresh air.
Inhalation	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.

5. FIRE-FIGHTING MEASURES

Protection of first-aiders	No special precautions required.
Suitable extinguishing media	Not flammable.
Media not to be used	In case of fire use extinguishing media appropriate to materials on fire.
Hazardous thermal decomposition and combustion products	Does not create explosive mixtures with air. Substance is not flammable at normal conditions. Thermal decomposition products: at 133-160°C: biuret, ammonia; at 160-190°C: cyanuric acid, ammonia, carbon dioxide.
Special firefighting procedures	Avoid vapors inhalation. During fire extinguishing ammonia can release.
Additional information	Prevent run of product into drains. If water containing dissolved product enters into drains inform appropriate services.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Sweep-up to prevent slipping hazard. Avoid inhalation of gases. Avoid contact with skin and eyes. Wear personal protective equipment.
Environmental precautions	Prevent product from entering drains.
Methods for cleaning	Clean contaminated surface thoroughly with clean water. Dam up.
Dispose	in accordance with local regulations.

7. HANDLING AND STORAGE

Storage	Handle in accordance with good industrial hygiene and safety practice. Incompatible with strong acids and oxidizing agents. Keep in properly labelled containers.
Handling	Keep tightly closed in a dry, cool and well-ventilated place. 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)	With equipment according to ISO 22241-2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment	Use in an area equipped with a safety shower.
Respiratory protection	In case of insufficient ventilation wear suitable respirator equipment.
Hand protection	Use gloves.
Skin and body protection	Protective suit not required.
Eye protection	Face-shield, safety glasses (EN166). Hygiene measures
	Handle in accordance with good industrial hygiene and safety practice.

9. 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

10. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Clear
Odour	None or small smell of ammonia
pH	9,8 - 10,0
Boiling point/range	No data available
Freezing point	-11°C
Flash point	No data available
Evaporation rate	No data available
Vapour density	No data available
Solubility in other solvents	No data available
Auto ignition temperature	No data available
Explosive properties	Protect from contamination.: Strong acids , nitrates Exothermic reaction with strong acids - Vapors may form explosive

	mixture with air
Oxidizing properties	No data available
Vapour pressure	ca. 48 mm Hg @ 40 °C
Water solubility	Soluble
Viscosity	No data available
Partition coefficient	No data available
Density	1087,0 – 1093,0 kg/m ³ @ 20°C

11. STABILITY AND REACTIVITY

Stability	Stable at normal conditions. Ammonia gas may be liberated at high temperatures.
Hazardous decomposition products	Possible decomposition products are: Carbon oxides, Nitrogen oxides (NO _x).
Materials to avoid	Burning produces obnoxious and toxic fumes. Reacts strongly with nitrites. Calcium hypochlorite nitrates. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Sodium hypochlorite
Conditions to avoid	Keep at temperatures above 50 °C.

12. ECOLOGICAL INFORMATION

Bioaccumulation	Low potential
Eco toxicity effects	Acute fish toxicity = LC 50 : >10000 mg/l 48 h (gold fish)
Mobility	Soluble
Persistence and degradability	Readily biodegradable
Contaminated packaging	Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal
Waste from residues	Can be land filled, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991. Dispose of in accordance with local regulations

13. TRANSPORT INFORMATION

ADR/RID	Not classified as dangerous in the meaning of transport regulations.
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14. REGULATORY INFORMATION

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

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

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