

Material Safety Data Sheet

ClearBlue –DEF™



This Material is Not Classified as Hazardous According to NOHSC Criteria

Section 1 – Identification of the material and supplier

Product Name:	ClearBlue –DEF™ (Complies with ISO 22241)
Other Names:	SCR Urea Solution, Diesel Emission Fluid (DEF), AUS32
Recommended Use:	Use in conjunction with Selective Catalytic Reduction (SCR) systems for reducing the level of NO _x gas emissions generated from diesel combustion engines
Supplier:	Greensafe Australia Pty Ltd PO Box 4186, Keilor Downs, Victoria, 3038
Contact Number:	0422 369 888
Emergency Number:	0422 369 888
Email:	admin@clearblue-def.com.au

Section 2 – Hazards Identification

Not Classified as Hazardous According to NOHSC Criteria

Not Classified as a Dangerous Good according ADG 7

RISK Phase: None

Safety Phrases: S24 Avoid contact with skin

S23 Do not breathe gas/fumes/vapour/spay

Section 3 – Composition/Information on Ingredients

Ingredient	CAS No	Chemical Formula	Concentration
Urea	57-13-6	(NH ₂) ₂ CO	32.5%
Water	7732-18-5	H ₂ O	Remainder

Section 4 – First Aid Measures

Eyes Wash out with water for 15 minutes

If irritation continues seek medical attention

Skin Wash effective area with running water

Inhalation Remove person from contaminated area and seek medical advice

Ingestion Contact the Poisons Information Centre on 13 11 26

Medical Attention and Special Treatment Treat symptomatically

Section 5 – Fire Fighting Measures

Extinguishing Media	No restrictions on the type of extinguishing media
Hazards from Combustion Products	Combustion of product may produce NOx gases under certain conditions
Fire Fighting	Restrict any spillage from entering stormwater drains and waterways Use breathing apparatus and protective clothing Keep sealed containers cool with water spray
Hazchem Code	None

Section 6 – Accidental Release Measures

Minor Spill	Use a standard spill kit absorbent to stop the flow of the product. Use a broom to cover the spill completely. Remove the contaminated absorbent and place in a sealed container
Major Spill	Block off any stormwater isolation valves that is available. Use absorbance, sand bags or soil to block any stormwater drains. Notify the Fire Brigade. Call a waste disposal contractor with a liquid vacuum tanker to assist in recovering the product from the ground. After the majority of the spill has been collected the area should be covered in absorbent and swept up and collected in a labelled container. Seek advice from your local EPA office regarding the disposal of any contaminated product

Section 7 – Handling and Storage

Precautions for Safe Handling	Use fixed pipework wherever possible to reduce contact while filling containers Use basic PPE while handling the product If contact with clothing occurs, the affected clothing should be removed and the affected area washed with running water
Conditions for Safe Storage	Store the product only in the containers it was supplied in.

Containers should be stored in banded or contained areas.

Containers must always be labelled clearly

Containers should be stored undercover.

Use barriers or signs to prevent containers from being damaged by traffic

Incompatible Chemicals

Avoid contact with oxidising agents, acids and caustic materials

Section 8 – Exposure Controls/Personal Protection

Exposure Controls

Use in a well ventilated environment

Personal Protective Equipment

Only basic PPE is required when using this product. The use of safety glasses, PVC gloves and overalls is recommended

Section 9 – Physical and Chemical Properties

Appearance	Clear bluish Liquid
Odour	Slight Ammonia
pH (1% solution)	9– 10
Vapour Pressure	Not Available
Vapour Density	Not Available
Boiling Pt	100 °C
Freezing Pt	12 °C
Solubility (water)	Soluble
Specific Gravity	1.08 @ 20 °C
Flash Pt	Non Flammable

Section 10 –Chemical Stability

This product is considered stable under normal conditions

Section 11–Toxicological Information

Health Effects	This product is not considered harmful and will only cause discomfort from inhalation of mist/fumes, ingestion, or eye contact. Seek medical attention if discomfort is noticed.
Long Term Health Effects	No long-term effects are expected, care should be taken to reduce exposure to all chemicals
Toxicity Data	Urea LD50 (ingestion) 8500 mg/kg (rat)

Section 12–Ecological Information

Ecotoxicity	In concentrated form this product can be harmful to plants and animals (flora and fauna). If allowed into waterways this product can promote the growth of toxic alga booms.
Persistence in Soil and Water	Low
Mobility in Soil and Water	High
Bioaccumulation	Low

Section 13–Disposal Considerations

Spill Disposal	Recycling of this product as a fertiliser may be possible once a contamination check has been completed. Clearly indentify all contaminates and consult your local EPA office
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Section 14–Transport Information

Not Regulated as a Dangerous Good for Transport by ADG 7

Section 15–Regulatory Information

Drugs and Poisons This product has not been listed on the Drugs and Poisons Schedule

Urea and Water are listed on the Australian Inventory of Chemical
Substance (AICS)

Section 16–Other Information

This MSDS has been prepared using the National Code of Practice for the preparation Material
Safety Data Sheets.

pH = logarithmic scale from 0 – 14. 0 = Strongly acidic
7 = Neutral
14= Strongly caustic or alkaline

°C = Degrees Celsius