SAFETY DATA SHEET

According to Work Health and Safety Regulations 2011 and National Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals

Version 1.1

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1. Identification of the material and supplier

Material name: ILD AdBlue Aqueous Urea Solution AUS 32

Other Names: -

Recommended use: Applied to trucks and buses equipped with the SCR, to reduce the content of nitrogen oxides in the exhaust gas.

Australia Supplier (Manufacturer): International Lubricant Distributors Pty. Ltd.

Address: 21 Logistics Boulevard, Kenwick, WA 6107, Australia

Contact person (E-mail): -

Telephone: -

Fax: -

Emergency number: 1300 558 939

2. Hazards identification

GHS classification:

- **Physical hazards:** Not classified
- **Health hazards:** Not classified
- **Environmental hazards:** Not classified

GHS label elements:

- **Hazard Pictograms:** No hazard pictogram is used.
- **Signal word:** No signal word is used.
- **Hazard statement:** Not applicable.

Precautionary statement:

- **Prevention:** Not applicable.
- **Response:** Not applicable.
- **Storage:** Not applicable.
- **Disposal:** Not applicable.

Specific hazards: Not applicable.

3. Composition/information on ingredients

Components	CAS No.	Percent
Urea	57-13-6	31.8~33.2%
Water	7732-18-5	66.8~68.2%

4. First aid measures

Inhalation: Move exposed person to fresh air and provide oxygen. Get medical attention if coughing or respiratory discomfort occurs.

Skin: As a precaution, remove clothing and shoes if contaminated. Avoid prolonged or repeated contact with skin. Wash with soap and water to remove the material from

	skin. Get medical attention.
Eye:	Wash eyes with water for 15 minutes. If irritation occurs, get medical attention.
Ingestion:	If large quantities of this material are swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Notes to physician:	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media:	Products contain large amounts of water, so there is no limit to the types of fire extinguishing medium, the choice of its surrounding area environment should be considered. Spray, Carbon dioxide, foam, dry chemical and water fog.
Extinguishing media which must not be used for safety reasons:	Not available
Specific hazards arising from the chemical:	Incombustible, fire could cause the release of harmful vapours. When fire may produce carbon monoxide, nitrogen dioxide, nitrogen oxide and other organic matter such as cracking of typical combustible components.
Fire Fighting:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
HAZCHEM code	None.

6. Accidental release measures

Personal precautions:	Cut off the source of fire, immediately contact the workers, and keep other person stay in safe areas. As much as possible cut off the source of leakage, prevent it access to sewers, drains, water. Comply with relevant fire procedures and refer to chapter 8 of the safety data sheet.
Containment procedures:	Do not let product enter drains.
Methods for cleaning up:	FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels. FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

7. Handling and storage

Precautions for safe handling:	Avoid long or repeated contact with skin, thoroughly clean after contact. Prevent damage of packaging and container, loading and unloading lightly when moving, Operators must receive special training; strictly abide by the operation procedures. To avoid oxidizing reaction. Avoid contact with the strong acid, hydrochloric acid, acid anhydride and chloroformate. Equipped with corresponding quantity of fire equipment and emergency handling equipment. When loading and unloading of 200 Liters of bottled products, should wear protective shoes. Empty containers may remain inside.
Storage:	Keep container sealed, do not store in open or unlabelled containers. Store in a cool, dry place with adequate ventilation, keep away from strong oxidizer, sunlight, heat and combustible. Storage temperature is -5°C ~25°C. Store in original container.

8. Exposure controls/personal protection

Control parameters	Follow standard monitoring procedures.
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values:	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	No exposure standards allocated.

Appropriate engineering controls:	Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Personal protective equipment:	
Eye/face protection:	If may splash, use safety goggles please.
Skin protection:	Under the condition of normal use, in addition to ordinary work clothes, do not need special skin and body protection equipment. In case of splash, according to the actual situation of the workplace to choose suitable, non-permeable safety clothing and safety shoes, recommended material is NBR.
Respiratory protection:	Don't need to wear respiratory protective equipment under the condition of normal use. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, need to choose to conform to the requirements of the relevant laws and regulations of respiratory protection equipment. Specific content consults the supplier of respiratory protection equipment.
Hand protection:	Using the resistance to chemical corrosion protective gloves, such as the use of PVC material gloves. Contaminated gloves timely replacement. Thoroughly clean with soap and water after operation.

9. Physical and chemical properties

Appearance:	
Physical state:	Liquid
Form:	Liquid
Colour:	Colourless transparent
Odor:	Slight ammoniacal.
Odour threshold:	Not available
PH:	9～11
Melting point/Freezing point:	-11.5 °C
Initial boiling point and boiling range:	100°C
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	6.4kPa @ 40°C
Vapor density (Air = 1):	Not available
Density:	1087.0~1093.0kg/ m3 @ 20°C
Solubility (H_2O):	Soluble in water
Solubility (Other):	Not available
Partition coefficient (n-octanol/water):	＜1
Auto-ignition temperature:	Not available
Decomposition temperature:	100°C
Viscosity:	Not available
Organic solvents:	Not available
Water:	Not available
VOC (EC):	Not available
Solids contents:	Not available
Molecular Formula:	Not available
Molecular Weight:	Not available
Pour Point:	Not available

10. Stability and reactivity

Reactivity: The substance is stable under normal storage and handling conditions.

Chemical stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: Extreme heat and high energy sources of ignition and strong oxidants.

Incompatible materials: Strong oxidants.

Hazardous decomposition products: Carbon monoxide, nitrogen dioxide, nitrogen oxide and other organic matter such as cracking of typical combustible components.

11. Toxicological information

Toxicological data:

Acute toxicity:

LD50(Oral, Rat): Not available

LD50(Dermal, Rat): Not available

LC50(Inhalation, Rat): Not available

Skin corrosion/Irritation: No data available.

Serious eye damage/irritation: No data available.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

STOT- single exposure: No data available.

STOT-repeated exposure: No data available.

Aspiration hazard: No data available.

Other information This product has no known adverse effect on human health.

12. Ecological information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Expected easily biodegradable.

Bioaccumulative potential: Low potential for bioaccumulation.

Mobility in soil: Weaker soil adsorption.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal methods: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Waste from residues/unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal instructions).

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or

disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

ADG

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Labels required	Not regulated
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	
Marine pollutant	No
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not regulated

15. Regulatory information

Safety, health and environmental regulations

National regulations

Australia Medicines & Poisons Appendix A/D/E/F/G/H/I/J/K / Australia Medicines & Poisons Schedule 2/3/4/5/6/7/8/9/10

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Urea (CAS 57-13-6)

High Volume Industrial Chemicals (HVIC)

Urea (CAS 57-13-6)	100000 - 999999 TONNES See the regulation for additional information.
Water (CAS 7732-18-5)	1000 - 9999 TONNES See the regulation for additional information.

Importation of Ozone Depleting Substances (Customs (Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Restricted Importation of Organochlorine Chemicals (Customs (Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

International regulations

Stockholm Convention

Not applicable

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

Inventory status:

Country(s) or region	Inventory name	On inventory (yes/no) *
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic /Non-Domestic Substances List (DSL) /(NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial/ Notified Chemical Substances (EINECS) / (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Indication of changes: Version 1.1

Training instructions: Not applicable.

Further information: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to reader: Employers should use this information only as a supplement to other information gathered by them and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.