



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name Inerxa AdBlue

Synonyms Diesel Exhaust Fluid (DEF), AUS32, AdBlue

Recommended Uses Additive to be used for injection into diesel exhaust systems.

Manufacturer RURAL LIQUID FERTILISERS PTY LTD

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1.4 Emergency telephone number

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Poisons Information Centre: 13 11 26

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

Not classified as hazardous according to the criteria of NOHSC, and not classified as Dangerous Goods according to the Australian Dangerous Goods Code.

Symbols(s) No Hazard symbol required

R-phrase(s) Not classified. **S-phrase(s)** Not classified.

Health Hazards Not expected to be a health hazard when used under normal conditions. May pose an inhalation

hazard in confined areas due to its ability to produce ammonia vapours.

Signs and Symptoms Not expected to give rise to an acute hazard under normal conditions for use.

Environmental Hazards Not classified as dangerous for the environment.

SUSDP Schedule Not scheduled.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Preparation DescriptionConcentrated aqueous solution containing urea.

Chemical Entity	CAS Number	Proportion	
Urea	57-13-6	30 - 40%	
Other ingredients determined not to be hazardous	n/a	to 100%	









FIRST AID MEASURES

General Information Not expected to be a health hazard when used under normal conditions.

Inhalation No treatment necessary under normal conditions of use. If symptoms persist, obtain

medical advice.

Skin Contact Remove contaminated clothing. Flush exposed area with water and follow by washing with soap

if available. If persistent irritation occurs, obtain medical attention.

Eye Contact Flush eye with copious quantities of water. If persistent irritation occurs, obtain

medical attention.

Ingestion In general, no treatment is necessary unless large quantities are swallowed, however, get

medical advice.

Advice to Physician Treat symptomatically.

FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Specific Hazards When heated, releases ammonia and when heated to decomposition it emits toxic fumes of

nitrogen oxides, ammonia and cyanuric acid.

Suitable Extinguishing Media Foam, water spray of fog. Dry checmical powder, cabon dioxide, sand or earth may be used for

small fires only.

Unsuitable Extinguishing Media

Don not use water in a jet.

Protective Equipment for Firefighters Proper protective equipment including breathing apparatus must be worn when approaching a

fire in a confined space.

ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. See Section 13 for information on disposal. Observe the relevant local and international regulations.

Protective measures Avoid contact with skin and eyes. Use appropriate containment to avoid environmental

contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth

or other appropriate barriers.

Clean Up Methods Prevent from spreading by making a barrier with sand, earth or other containment material.

Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand

or other suitable material and dispose of properly.

Local authorities should be advised if significant spillages cannot be contained. **Additional Advice**









7. HANDLING AND STORAGE

General Precautions

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly

dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material. Vehicle fueling and vehicle workshop areas - Avoid inhalations and vapours and contact with skin, when

filling or emptying a vehicle.

Handling Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When

handling product in drums, safety footwear should be worn and proper handling equipment

shoud be used.

Storage Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and

closeable conatiners.

Recommended Materials For containers or container linings, use mild steel or high density polyethylene.

Unsuitable Materials PVC.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

Material	Source	Туре	ppm	mg/m³	Notation
Ammonia	ACGIH	TWA	25 ppm		
	ACGIH	STEL	35 ppm		
	AU OEL	TWA	25 ppm	17 mg/m ³	
	AU OEL	STEL	35 ppm	24 mg/m³	

Exposure Controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Personal Protective Equipment

Personal Protective Equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

AS/NZS 1337: Eye protectors for industrial applications.

AS/NZS 2161 : Occupational protective gloves - Selection, use and maintenance. AS/NZS 1715 : Selection, use and maintenance of respiratory protective devices.

AS/NZS 1716: Respiratory protective devices.

Respiratory Protection

No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point>65°C (149°F)].









Hand Protection Select gloves tested to a relevant standard (e.g. Europe EN374, US F739). Suitability and

durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and

dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Eye Protection Wear safety glasses or full face shield if splashes are likely to occur. **Protective Clothing** Skin protection not ordinarily required beyond standard issue work clothes.

Monitoring Methods Monitoring of the concentration of substances in the breathing zone of workers or in the general

workplace may be required to confirm compliance with an OEL and adequacy of exposure

controls. For some substances biological monitoring may also be appropriate.

Environmental Exposure Controls Minimise release to the environment, An environmental assessment must be made to ensure

compliance with local environment legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colourless. Liquid.

 Odour
 Odourless

 pH
 8.0 - 10.0

Initial Boiling Point and > 280°C / 536°F estimated value(s)

Boiling range

Freezing / Melting Point

Pata not available

Flash point

Data not available

Upper / Lower Flamability or

Data not available

Explosion Limits

 Auto-Ignition Temperature
 Data not available

 Vapour Pressure
 Data not available

 Specific Gravity
 Data not available

 Density
 1.090 kg/L

 Water Solubility
 Soluble

Solubility in other solvents

N - octanol/water partition

Data not available

Data not available

coefficient (log Pow)

Vapour Density: (air=1) Data not available
Evaporation rate (nBuAc=1) Data not available

10. STABILITY AND REACTIVITY

Stability Stable. Decomposes above 135°C.

Conditions to Avoid Extremes of temperature and direct sunlight.

Materials to Avoid Strong oxidising agents.

Hazardous Decomposition Products Hazardous decomposition products are not expected to form during normal storage. At high

temperatures, will decompose to ammonia and carbon dioxide. If burnt, will emit nitrogen oxides,

ammonia and cyanuric acid.









11. TOXICOLOGICAL INFORMATION

Acute Oral ToxicityExpected to be of low toxicity: LD50 > 5000 mg/kg, RatAcute Dermal ToxicityExpected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit

Acute Inhalation Toxicity

Not considered to be an inhalation hazard under normal conditions of use.

Skin IrritationNot expected to be a hazard.Eye IrritationNot expected to be a hazard.

Respiratory Irritation Inhalation of vapours or mists may cause irritation.

Sensitisation Not expected to be a skin sensitiser.

Repeated Dose ToxicityNot expected to be a hazard.

Mutagenicity Not considered a mutagenic hazard.

Carcinogenicity Components are not known to be associated with carcinogenic effects.

Reproductive and Developmental Toxicity Not expected to be a hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (LL/EL50 expressed as the nominal

amount of product required to prepare aqueous test extract).

Mobility Large volumes may penetrate soil and could contaminate groundwater.

Persistence/degradability Readily biodegradable.

Bioaccumulation Not expected to bioaccumulate significantly.

Other Adverse Effects Not expected to have ozone depletion potential, photochemical ozone creation potential or global

warming potential. Will exert oxygen demand when significant quantities enter watercourses

and may cause damage to aquatic life.

13. DISPOSAL CONSIDERATIONS

Material Disposal Recover or recycle if possible. It is the responsibility of the waste generator to determine the

toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose

into the environment, in drains or in water courses.

Container Disposal Dispose in accordance with prevailing regulations, preferably to a recognised collector or

contractor. The competence of the collector or contractor sould be established beforehand.

Local Legislation Disposal should be in accordance with applicable regional, national, and local laws

and regulations.

14. TRANSPORT INFORMATION

ADG This material is not classified as dangerous according to the Australian Dangerous Goods Code.

IMDG This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is either not classified as dangerous under IATA regulations or needs to follow

country specific requirements.









15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

SUSDP Schedule

Chemical Inventory Status

Other Information

Not scheduled.

AICS: All components are listed or exempt.

National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2011]

List of Designated Hazardous Substances [NOHSC: 10005].

Approved Criteria for Classifying Hazardous Subtances [NOHSC: 1008].

Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational

Environment [NOHSC: 1003].

Australian Dangerous Goods Code.

Standard Uniform Scheduling of Drugs and Poisons.

16. OTHER INFORMATION

Additional information

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES:

Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which should encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.









Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify

chemical compounds

CNS Central Nervous System

EC No - European Community Number

GHS Globally Harmonized System

IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14

(highly alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure) **STOT-SE** Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

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End of SDS



