

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

<b>Material Name</b>	Exhaust Fluids Australia -Global AdBlue®
<b>Recommended Uses</b>	Additive to be used for injection into diesel exhaust systems
<b>Product Code</b>	462583
<b>Supplier</b>	Exhaust Fluids Australia Pty Ltd 2 Western Avenue, Sunshine, Victoria 3120
<b>Telephone</b>	+61 3 9312 4788
<b>Fax</b>	+61 3 9311 6026
<b>Emergency Tel No</b>	0423 223 839 (within Australia only) Poisons Information Centre: <b><u>Australia 13 11 26</u></b>

**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.

<b>Symbol(s)</b>	No Hazard Symbol required
<b>R-phrse(s)</b>	Not classified.
<b>S-phrse(s)</b>	Not classified.

<b>Health Hazards</b>	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.
<b>Signs and Symptoms</b>	Not expected to give rise to an acute hazard under normal conditions of use.
<b>Environmental Hazards</b>	Not classified as dangerous for the environment.
<b>SUSDP Schedule</b>	Not scheduled.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Preparation Description</b>	Concentrated aqueous solution containing urea.		
<b>Chemical Identity</b>	<b><u>CAS</u></b>	<b><u>EINECS</u></b>	<b><u>CONCENTRATE</u></b>
<b>WATER:-</b>	7732-18-5	231-791-2	67.50%
<b>UREA:-</b>	57-13-6	200-315-5	32.50%

### 4. FIRST AID MEASURES

<b>General Information</b>	Not expected to be a health hazard when used under normal conditions.
<b>Inhalation</b>	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
<b>Skin Contact</b>	Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
<b>Eye Contact</b>	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
<b>Ingestion</b>	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
<b>Advice to Physician</b>	Treat symptomatically.

## 5. 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 or fog.  
Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Unsuitable Extinguishing Media**

Do 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.

## 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material.  
For guidance on personal protective equipment selection

Chapter 8 of this Material Safety Data Sheet.

See Chapter 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.

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

## 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 inhalation of 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 should be used.

### **Storage**

Keep container tightly closed and in a cool, well-ventilated place.

Use properly labelled closable containers.

### **Storage Incompatibility**

Avoid storage/mixing with oxidizing agents.

### **Recommended Materials**

For containers or container linings, use stainless steel or high-density polyethylene or polypropylene.

### **Unsuitable Materials**

PVC...if unqualified.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

MATERIAL	SOURCE	TYPE	PPM	MG/M3	NOTATION
Ammonia	ACGIH	TWA	25 ppm		
	ACGIH	STEL	35 ppm		
	AU OEL	TWA	25 ppm	17 mg/m3	
	AUOEL	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***

Wear chemical protective gloves, eg. PVC

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 with side shields or full-face shield.

***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 general workplace may be required to confirm compliance with an OEL and adequacy of exposure control.

***Environmental Exposure Controls***

Minimize release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Colourless. Liquid.
<b>Odour</b>	Odourless
<b>pH</b>	9.8 – 10
<b>Initial Boiling Point and Boiling Range</b>	> 280 °C / 536 estimated value(s)
<b>Freezing/melting point</b>	Data not available
<b>Flash point</b>	
<b>Upper / lower Flammability or Explosion limits</b>	Data not available
<b>Auto-ignition temperature</b>	Data not available
<b>Vapour pressure</b>	Data not available
<b>Specific gravity</b>	Data not available
<b>Density</b>	1.090 g/cm <sup>3</sup>
<b>Water solubility</b>	Soluble.
<b>Solubility in other solvents</b>	
<b>n-octanol/water partition coefficient (log Pow)</b>	Data not available
<b>Vapour density (air=1)</b>	Data not available
<b>Evaporation rate (nBuAc=1)</b>	Data not available

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable. Decomposes above 135°C.
<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight.
<b>Materials to Avoid</b>	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

<b>Acute Oral Toxicity</b>	Expected to be of low toxicity LD50 > 5000 mg/kg, Rat
<b>Acute Dermal Toxicity</b>	Expected to be of low toxicity LD50 > 5000 mg/kg, Rabbit
<b>Acute Inhalation Toxicity</b>	Not considered to be an inhalation hazard under normal conditions of use.
<b>Skin Irritation</b>	Not expected to be a hazard.
<b>Eye Irritation</b>	Not expected to be a hazard.
<b>Respiratory Irritation</b>	Inhalation of vapours or mists may cause irritation
<b>Sensitisation</b>	Not expected to be a skin sensitiser.
<b>Repeated Dose Toxicity</b>	Not expected to be a hazard.
<b>Mutagenicity</b>	Not considered a mutagenic hazard.
<b>Carcinogenicity</b>	Components are not known to be associated with carcinogenic effects.
<b>Reproductive and Developmental Toxicity</b>	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.

<b>Acute Toxicity</b>	Expected to be practically non-toxic LL/EL/IL50 > 100 mg/l(LL/EL50 expressed as the nominal amount product required to prepare aqueous test extract).
<b>Mobility</b>	Large volumes may penetrate soil and could contaminate groundwater.
<b>Persistence/degradability</b>	Readily biodegradable.
<b>Bioaccumulation</b>	Not expected to bioaccumulate significantly.
<b>Other Adverse Effects</b>	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

<b>Material Disposal</b>	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.
<b>Container Disposal</b>	Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
<b>Local Legislation</b>	Disposal should be in accordance with applicable Regional, National, and local laws and regulations.

**14. TRANSPORT INFORMATION****ADG**

Not classified as dangerous according to the Australian Dangerous Goods Code (ADG7)

**HAZCHEM**

None (ADG7)

**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**

Not scheduled.

**Chemical Inventory Status AICS**

All components are listed or exempt.

**Other Information**

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 Substances [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**

***R-phrases(s)*** Not classified

***MSDS Version Number*** 1.5

***MSDS Effective Date*** 23<sup>rd</sup> November 2018

***MSDS Distribution*** The information in this document should be made available to all who may handle the product

***Disclaimer*** This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only.

It should not therefore be construed as guaranteeing any specific property of the product.

