

SAFETY DATA SHEET

VERSION: 1.2

Date: 15/8/2015

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[Section 1. IDENTIFICATION OF THE PRODUCT/PREPARATION AND COMPANY/UNDERTAKING]

PRODUCT NAME: EcoBlue

Application: Additive for injection into diesel exhaust systems (NOx reduction in exhaust gases).

Standard: Manufactured in accordance with ISO22241 standards

Supplier: Mammoth Equipment and Exhausts.

ABN: 22 149 528 316

Street Address: 32 Tacoma Circuit Canning Vale WA 6155

Telephone: 1300 310 340

Facsimile: 1300 310 350

[Section 2. HAZARD IDENTIFICATION]

- a) Australian Classification:** Not classified as hazardous according to the criteria of Safe Work Australia Council (SWAC).
- b) Hazard Category:** None allocated
- c) Hazard Classification:** NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS.
- d) Risk Phrases:** None allocated.
- e) Safety Phrases:** None allocated.
- f) Poison Schedule (Australia):** Not scheduled.
- g) Signal Word(s):** None allocated
- h) Health Hazards:** NOT expected to be a health hazard when used under normal conditions.
- i) Signs and Symptoms:** NOT expected to give rise to any acute hazards under normal conditions of use.
- j) Environmental Hazards:** NOT classified as dangerous to the environment.

|Section 3. COMPOSITION INFORMATION|

a) CHEMICAL ENTITY	<u>CAS NO.</u>	<u>PROPORTION</u>
Water	7732-18-5	67.5%
Urea	57-13-6	32.5%

|Section 4. FIRST AID MEASURES|

a) General Information: Not expected to be a health hazard when used under normal conditions. If poisoning occurs, contact a doctor or Poisons Information centre (Phone Australia 131 126)

b) Inhalation: No treatment necessary under normal conditions of use. If symptoms occur remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

c) Skin contact: If skin or hair contact occurs remove contaminated clothing. Flush exposed area with water and follow with soap if available. If persistent irritation occurs, obtain medical advice.

d) Ingestion: DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms develop seek medical attention. If large quantities ingested seek medical attention immediately. Show this sheet to the doctor.
In general no treatment is necessary unless large quantities are swallowed, however, seek medical advice.

e) Eye: If contact with the eye(s) occurs, flush the eye with copious amounts of water for at least 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Remove contact lenses, if present and easy to do so. Continue rinsing. If symptoms persist seek medical attention. Show this sheet to doctor. Do not use a neutralisation agent

|Section 5. FIRE FIGHTING MEASURES|

a) HAZCHEM CODE: None

b) Flammability: Non Combustible

c) Clear fire area of all non-emergency personnel.

d) Suitable extinguishing media: Non-combustible, however, if material is involved in a fire; use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

e) Protective Equipment for Firefighters: Fire fighters to wear full protective clothing and self-contained breathing apparatus (SCBA) in confined spaces, oxygen deficient atmospheres or if exposed to products of decomposition. Cool down containers/equipment exposed to heat with a water spray. If safe to do so, move undamaged containers from fire area. Avoid fire-fighting water entering the environment.

[Section 6. ACCIDENTAL RELEASE MEASURES]

- a) Small Spills:** Wear protective apparel to avoid skin and eye contamination. Avoid inhalation of vapours. Clean up with absorbent materials (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.
- b) Large Spills:** Clear area of all unprotected people. Prevent further leakage or spillage if safe to do so. Note EcoBlue can be slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Increase ventilation. Contain – prevent run off into drains and waterways. Use absorbents (soil, sand or other inert materials). Collect and seal in properly labelled containers or drums for disposal. If contamination of sewers or waterways has transpired advise the local emergency services.
- c) Dangerous Goods – Initial Emergency Response Guide No:** N/A

[Section 7. HANDLING AND STORAGE]

- a) 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 fuelling and vehicle workshop areas – avoid inhalation of vapours and contact with skin, when filling or emptying a vehicle.
- b) 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.
- c) Storage:** Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closable containers.
- d) Recommended Materials:** For containers or container linings, use stainless steel or high density polyethylene.
- e) Unsuitable Materials:** PVC

[Section 8. EXPOSURE CONTROLS||PERSONAL PROTECTION]

- a) National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia.
- b) Biological Limit Values:** In accordance with the National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia) the ingredients of EcoBlue do not have a Biological Limit Allocated.
- c) Engineering Measures:** natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.
- d) Personal Protection Equipment:** OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES

e) Hygiene Measures: Keep away from food, drink and animal feeding troughs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin exposure. Ensure that eyewash stations and safety showers are close to the workspace.

|Section 9. PHYSICAL AND CHEMICAL PROPERTIES|

- **FORM:** LIQUID
- **COLOUR:** CLEAR TO HAZY GREEN
- **ODOUR:** Slight AMMONIACAL ODOUR
- **Miscible with water?** Yes.
- **Density:** 1.09 g/cm³ (20°C)
- **Relative Vapour Density (air = 1):** >1
- **Flash Point:** N/A
- **Flammability Limits (%):** N/A
- **Auto ignition Temperature:** Not available
- **Congealing/Melting Point Range (°C):** -11.5
- **Boiling Point/Range (°C):** 103
- **pH:** 9.8 - 10
- **Viscosity:** Dynamic: 1,4 mPa·s (1,4 cP) [25 °C]
- **Total VOC (g/litre):** Not available

|Section 10. STABILITY AND REACTIVITY|

a) Stability: Stable. Decomposes above 135°C

b) Reactivity: No reactive hazards are known for this material.

c) Materials to Avoid: Strong oxidising agents

d) Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Section 10.1 STORAGE AND SHELF LIFE

CONSTANT AMBIENT STORAGE TEMPERATURE	MINIMUM SHELF LIFE
<10	36 MONTHS
<25	18
<30	12
<35	6
>35	_B
AVOID PROLONGED TRANSPORTATION OR STORAGE ABOVE 25°C	

Section 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Oral Toxicity: Expected to be of low toxicity:LD50 > 5000 mg/kg, Rat

Acute Dermal Toxicity: Expected 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 Irritation : Not expected to be a hazard.

Eye Irritation: Not 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 Toxicity: Not 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.

|Section 12. ECOLOGICAL INFORMATION|

Avoid contaminating water bodies.

Persistence and Degradability: The product is readily biodegradable.

Bioaccumulative potential: Risk of bioaccumulation in an aquatic species is low

|Section 13. DISPOSAL CONSIDERATIONS|

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used (refer to section 8D of this SDS).

|Section 14. TRANSPORT INFORMATION |

ROAD/RAIL/MARINE/AIR TRANSPORT:

This material is not classified as dangerous according to the Australian Dangerous Goods Code. For either ADG, IMDG or IATA respectively.

|Section 15. REGULATORY INFORMATION|

This Product is NOT subject to the following international agreements:

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- Basel Convention (Hazardous Waste)
- International Convention for the Prevention of Pollution from Ships (MARPOL)

This material/constituent(s) is covered by the following requirements:

All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS).

|Section 16. OTHER INFORMATION|

SDS VERSION NUMBER: 1.3

SDS EFFECTIVE DATE: 15/8/2015

SDS DISTRIBUTION: The information in this document should be made available to all who may handle the product.

DISCLAIMER

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