



SAFETY DATA SHEET

Product Name: **KADBLUE**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name TRU-BLU OIL AUSTRALIA PTY LTD
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Synonym(s) Diesel Exhaust Fluid, ADBLUE, Urea Solution

Use(s) Diesel Exhaust Fluid used to lower NOx concentration in exhaust emissions.

Product Identifier.

CAS # 57-13-6
EC # 200-315-5
Tariff Code # 3102.10.00

SDS Date 14th July 2020

2. HAZARDS IDENTIFICATION

No significant hazard

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances : Solution of Urea in water

4. FIRST AID MEASURES

Eye	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes, holding eyelids open. Seek medical attention if irritation or symptoms persist.
Skin	May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Inhalation	May cause irritation to mucous membranes. Move the exposed person to fresh air.
Ingestion	May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.
Advice to Doctor	Treat symptomatically.
First Aid Facilities	Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES

Extinguishing Use extinguishing media appropriate to the surrounding fire conditions.

Fire Hazards Burning produces irritating, toxic and obnoxious fumes

Protective Equipment Wear Suitable respiratory equipment when necessary

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation of the working area
Environmental Precautions	Do not allow product to enter drains. Prevent further spillage if safe

7. STORAGE AND HANDLING

Storage	Keep in a cool dry, well-ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Avoid subsoil penetration.
Handling	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best manual handling considerations when handling, carrying and dispensing. In order to avoid crystallisation or hydrolysis or DEF resp. It is recommended to store the product under normal conditions at temperatures between -5 deg to 30 deg. C. This product is not flammable.

Suitable packaging Tanks and related facilities which may get in contact with KADBlue, shall be made of high alloyed austenitic Cr-Ni steel and Mo-Cr-Ni steel according to DIN EN 10 08801 to 3 (e.g. 1.4541 and 1.4571).

UNSUITABLE: Materials such as Copper, copper-containing alloys and unalloyed and galvanised steels are not suitable. Under these conditions, KADBlue has a shelf life of at least one year.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Ensure adequate ventilation of the working area

Controls

Hand Controls Chemical Resistant Gloves (PVC)

Eye protection In case of splashing, wear: Approved Safety Goggles

Protective Wear protective clothing

Equipment



9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid
Colour	Colourless
Odour	Slight
pH	10
Boiling Point	103 °C
Relative Density	1.087 – 1.093 g/cm ³ @ 20 Deg. C.
Water Solubility	Miscible in water
Viscosity	1.4 mPas @ 25 deg. C.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Material to Avoid	Strong Oxidising Agents. Nitrates
Hazardous	A
Decomposition Products	Ammonia

11. TOXICOLOGICAL INFORMATION

KADBlue DEF Oral Rat LD50 = 15000mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity Daphnia LC50/24h = 1000mg/l
Fish LC50/96h => 6810mg/l

Degradability Do not allow uncontrolled discharge of the product into the environment. Biodegradable

13. DISPOSAL CONSIDERATIONS

General Information Dispose of in accordance with all local and national regulations.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

16. REGULATORY INFORMATION

Risk Phases NSH – No significant hazard

16. OTHER INFORMATION

The additives in this product include zinc alkyldithiophosphate (68649-42-3), molybdenum polysulphide long chain alkyl dithiocarbamide complex and tetra propenyl phenol.

MINERAL OILS - SOLVENT REFINED; Animal experiments and human experience have not shown cancer risks when handling solvent refined mineral oils, unlike non refined mineral oils.

CLEANING MINERAL OIL CONTAMINATED CLOTHING; Cleaners are advised that when cleaning oil contaminated clothing it is essential that freshly distilled solvent is used for each batch, including final rinse, as even filtered solvent will leave oil residues.

MINERAL OILS - USED; Used mineral oils in engine crankcases and other high temperature/high stress environments may contain potentially harmful residues, some of which have been shown to cause irreversible skin effects, including cancer. Prolonged and repeated inhalation of mists associated with used mineral oils may result in pulmonary fibrosis.

MINERAL OILS - INJECTION; Where high pressure applications are used the risk of accidental injection under the skin exists and may result in an extremely painful and serious injury requiring immediate medical attention. Depending on the pressure used, mineral oils may be injected a considerable distance below the skin and may cause permanent tissue damage. SEEK IMMEDIATE MEDICAL ATTENTION. EXERCISE EXTREME CARE WHEN USING HIGH PRESSURE EQUIPMENT.

ABBREVIATIONS:

ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EC No - European Community Number.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m³ - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

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

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

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 MSDS which would encompass all possible scenarios, it is anticipated that the end user will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this MSDS 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 by the end user before final selection of personal protective equipment is made.

REPORT STATUS:

This MSDS has been prepared by Tru-Blu Oil using the most current information available at the time of issuing. Tru-Blu Oil accepts no liability (as lawfully allowed) for any loss, injury or damage which may have been suffered or incurred by any person as a consequence of their reliance on information that is contained in this MSDS.

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1st Issue: 18th October 2010

End of MSDS