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SAFETY DATA SHEET

Product Name Water Based Degreaser

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name TRU-BLU OIL AUSTRALIA PTY LTD
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Telephone (03) 9720 4400
Fax (03) 9720 5821
Emergency 0412 609 722
Email technical@trubluoil.com.au
Web Site http://www.trubluoil.com.au/

Use(s) Cleaner, Degreaser

SDS Date 17th February, 2017

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

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

Symbol(s): Xn Harmful.
R-phrase(s): R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s): S24 Avoid contact with skin.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S39 Wear eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
Health Hazards:
May cause sensitisation by skin contact. Risk of serious damage to eyes. Harmful if swallowed.
Signs and Symptoms:
Skin sensitisation (allergic skin reaction) signs and symptoms may include itching and/or a rash. The undiluted product is irritating to the eyes with a potential to cause corneal injury if treatment is not prompt.
Safety Hazards:
Slippery when spilt.
Environmental Hazards:
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
SUSMP Schedule: S6

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Identity	CAS	EINECS	Symbol(s)	R-phrase(s)	Conc.
2-butoxy ethanol	111-76-2	203-905-0	Xn	R20/21/22; R36/38	10.00 - 20.00 %
Ethoxylated C12-C15 alcohols	68131-39-5	500-195-7	Xn, N	R22; R41; R50	5.00 - 20.00 %
Sodium xylene sulphonate	1300-72-7	215-090-9	Xi	R36	1.00 - 3.00 %

D-limonene	5989-27-5	227-813-5	Xi, N	R10; R38; R43; R50/53	1.00 - 2.40 %

4. First Aid Measures

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: Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.

Ingestion: If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Advice to Physician: Treat symptomatically. Call a doctor or poison control center for guidance.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Specific Hazards: No specific hazards.

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 selection of personal protective equipment see 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, eyes and clothing. 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: Slippery when spilt. Avoid accidents, clean up immediately. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

7. STORAGE AND HANDLING

General Precautions: 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.

Handling: Avoid prolonged or repeated contact with skin, eyes and clothing. When using do not eat or drink. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

Storage: Keep containers closed when not in use. Protect from frost. 0°C minimum.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Standards

2-butoxy ethanol	ACGIH	TWA	20 ppm		
	AU OEL	TWA	20 ppm	96.9 mg/m3	
	AU OEL	STEL	50 ppm	242 mg/m3	
	AU OEL	SKIN_DES			Can be absorbed through the skin.

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 below the exposure guidelines/limits. Wash hands before eating, drinking, smoking and using the toilet.
Personal Protective Equipment: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.
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.
Hand Protection: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. 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: If material is handled such that it could be splashed into eyes, protective eyewear is recommended. Chemical splash goggles (chemical monogoggles).
Protective Clothing: Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.
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 environmental legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear. Pink. Liquid at room temperature.
Odour:	Characteristic
pH:	Typical 6.5 (1% aqueous solution)
Initial Boiling Point and Boiling Range:	> 100 °C / 212 °F estimated value(s)
Melting / freezing point:	Data not available
Flash point:	Typical 70 °C / 158 °F
Upper / lower Flammability or Explosion limits:	Data not available
Auto-ignition temperature:	Data not available
Vapour pressure:	Data not available
Specific gravity:	Typical 1.00 at 15 °C / 59 °F
Density:	Typical 1,000 kg/m3 at 15 °C / 59 °F
Water solubility:	Completely miscible.
Solubility in other solvents:	Data not available
Kinematic viscosity:	Typical 10 mm2/s at 20 °C / 68 °F
Vapour density (air=1):	Data not available
Evaporation rate (nBuAc=1):	Data not available

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
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.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment:	Information given is based on data on the components and the toxicology of similar products.	
Acute Oral Toxicity:	Expected to be moderately toxic:	LD50 >200 - 2000 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: Expected to be slightly irritating.
Eye Irritation: Risk of serious damage to eyes.

Respiratory Irritation: Inhalation of vapours or mists may cause irritation to the respiratory system.
Sensitisation: Expected to be a skin sensitizer.
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.

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 harmful: LL/EL/IL50 10-100 mg/l(to aquatic organisms)
Mobility: Liquid under most environmental conditions. Dissolves in water. Large volumes may penetrate soil and could contaminate groundwater.
Persistence/degradability: Major constituents are expected to be readily biodegradable, but the product contains components that may persist in the environment.
Bioaccumulation: Not expected to bioaccumulate significantly.
Other Adverse Effects: Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

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 should 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.
SUSMP Schedule: S6

Chemical Inventory Status
EINECS: All components listed or polymer exempt.
TSCA: Not established.
AICS: All components listed.
Classification triggering components:
Contains 2-butoxy ethanol, ethoxylated C12-C15 alcohols and d-limonene.
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 for the Uniform Scheduling of Medicines and Poisons.

16. OTHER INFORMATION

Additional Information

R-phrase(s)
R10 Flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R50 Very toxic to aquatic organisms.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 (highly 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.

MSDS Date: 14th February 2017

End of MSDS