SAFETY DATA SHEET

DROMUS BL

Infosafe No.: 3HOAO
ISSUED Date : 21/09/2019
ISSUED by: HOUGHTON AUSTRALIA PTY. LTD.

1. Identification

GHS Product Identifier
DROMUS BL

Product Code
42000212-M

Company name
HOUGHTON AUSTRALIA PTY. LTD.

Address
287 Wickham Road Moorabbin
VIC 3189 AUSTRALIA

Telephone/Fax Number
Tel: +61 1300 736 642

Emergency phone number
3E Company (+)1 760 476 3960 (Code 333938)
Australia: (+)61 1 800 686 951
Australia (+)61 280 363 166
New Zealand: (+)64 800 451719

E-mail Address
ProductStewardship@houghtonintl.com

Recommended use of the chemical and restrictions on use
Metalworking fluid
Uses advised against: Any other purpose.

2. Hazard Identification

GHS classification of the substance/mixture
Eye Damage/Irritation: Category 2A

Signal Word (s)
WARNING

Hazard Statement (s)
H319 Causes serious eye irritation.

Precautionary statement – General
Not Applicable

Pictogram (s)
Exclamation mark

Precautionary statement – Prevention
Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/eye protection/face protection

Precautionary statement – Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Precautionary statement – Storage
Not Applicable

Precautionary statement – Disposal
Not Applicable

Other Information
GHS Classification:
Serious eye damage/eye irritation Category 2 - (H319)

Other hazards: Harmful to aquatic life with long lasting effects

3. Composition/information on ingredients

Ingredients

Name	CAS	Proportion
Highly refined base oil (Viscosity >20.5 cSt @40°C)		50-100 Wt%
Sulfonic acids, petroleum, sodium salts	68608-26-4	2.5-10 Wt%
potassium hydroxide	1310-58-3	0-1 Wt%

Other Information
This product is a mixture. Health hazard information is based on its ingredients

The remaining composition is a mixture of non-classified ingredients or additives below the threshold for disclosure

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346. See Section 15 for additional information on base oils.

4. First-aid measures

First Aid Measures
General advice: Do not get in eyes, on skin, or on clothing. When symptoms persist or in all cases of doubt seek medical advice.

Inhalation
Remove to fresh air.

Ingestion
Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice.

Skin
Wash off immediately with plenty of water.

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice.

Advice to Doctor
Treat symptomatically.

Protection for First Aiders
Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms/effects, acute and delayed
Eye damage/irritation.

5. Fire-fighting measures

Suitable Extinguishing Media
Use CO2, dry chemical, or foam. Water spray or fog. Cool containers / tanks with water spray.

Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire

Hazards from Combustion Products
Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide

Special Protective Equipment for fire fighters
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Specific Hazards Arising From The Chemical
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke) Water runoff can cause environmental damage

Decomposition Temperature
Not Determined

6. Accidental release measures

Emergency Procedures
Use personal protection recommended in Section 8.

Methods And Materials For Containment And Cleaning Up
Methods for containment: Prevent further leakage or spillage if safe to do so.
Methods for cleaning up: Pick up and transfer to properly labeled containers.

Personal Precautions
Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

7. Handling and storage

Precautions for Safe Handling
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Store in original container or corrosive resistant and/or lined container.

Recommended Shelf Life:
Shelf life 12 months

Unsuitable Materials
Strong acids. Strong bases. Strong oxidizing agents. Aluminium.

8. Exposure controls/personal protection

Occupational exposure limit values
Control parameters
Chemical name: Indices (BEI) Highly refined base oil (Viscosity >20.5 cSt @40°C)
New Zealand:
TWA: 5 mg/m3
STEL: 10 mg/m3

Chemical name: Potassium hydroxide
Australia:
Ceiling: 2 mg/m3
New Zealand:
Ceiling: 2 mg/m3

Appropriate engineering controls
Showers
Eyewash stations
Ventilation systems

Environmental exposure controls: No information available.

Respiratory Protection
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Eye Protection
Safety glasses with side-shields.

Thermal Hazards
None under normal use conditions.

Body Protection
Wear protective gloves/clothing.

Hygiene Measures
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

9. Physical and chemical properties

Properties	Description	Properties	Description
Form	Liquid	**Appearance**	Clear brown
Odour	Not Determined	**Decomposition Temperature**	Not Determined
Boiling Point	Not Determined	**Solubility in Water**	Soluble in water
pH	~ 9.3 @5%	**Vapour Pressure**	Not Determined
Vapour Density (Air=1)	Not Determined	**Evaporation Rate**	Not Determined
Odour Threshold	Not Determined	**Pour Point**	Not Determined
Partition Coefficient: n-octanol/water	Not Determined	**Flash Point**	>150°C (Cleveland Open Cup) >302°C (Cleveland Open Cup)
Flammability	Not Determined (solid, gas)	**Auto-Ignition Temperature**	Not Determined
Flammable Limits - Lower	Not Determined in Air	**Flammable Limits - Upper**	Not Determined in Air
Explosion Properties	Not applicable	**Oxidising Properties**	Not applicable
Kinematic Viscosity	> 20.6 cSt @ 40 °C Not Determined (100°C)	**Relative density**	~ 0.883 g/cm3 @15°C
Melting/Freezing Point	Not Determined		

Other Information
VOC Content (ASTM E-1868-10): Not Determined
VOC content: Not Determined

10. Stability and reactivity

Reactivity
None under normal use conditions.

Chemical Stability
Stable under normal conditions.

Conditions to Avoid
Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials
Strong acids. Strong bases. Strong oxidizing agents. Aluminium.

Hazardous Decomposition Products
Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

Possibility of hazardous reactions
None under normal processing.

11. Toxicological Information

Toxicology Information
Acute toxicity
Information on likely routes of exposure
Product Information - Principle Routes of Exposure
Symptoms: Moderately irritating to the eyes.

Numerical measures of toxicity - Product Information:
mg/kg

Acute toxicity - Product Information:
Product does not present an acute toxicity hazard based on known information

Acute toxicity - Component Information
Chemical name / Oral LD50 / Dermal LD50
Highly refined base oil (Viscosity >20.5 cSt @40°C) >2000 mg/kg >2000 mg/kg
Sulfonic acids, petroleum, sodium salts >5000 mg/kg (Rat) >500 mg/kg (Rabbit)
Potassium hydroxide 333 mg/kg (Rat) -

Exposure levels: See section 8 for more information

Interactive effects: None known

Ingestion
Product Information - Principle Routes of Exposure:
Based on available data, the classification criteria are not met.

Inhalation
Product Information - Principle Routes of Exposure:
Based on available data, the classification criteria are not met.

Skin
Product Information - Principle Routes of Exposure:
Based on available data, the classification criteria are not met.

Eye
Product Information - Principle Routes of Exposure:
Irritating to eyes.

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Irritating to eyes.

Respiratory sensitisation
Based on available data, the classification criteria are not met.

Skin Sensitisation
Based on available data, the classification criteria are not met.

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive Toxicity
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration Hazard
Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity
Harmful to aquatic life with long lasting effects.

Chemical name / Fish / Crustacea
Sulfonic acids, petroleum, sodium salts >1000: 96 h Pimephales promelas mg/L LC50 >1000: 48 h Daphnia magna mg/L EC50
Potassium hydroxide 80: 96 h Gambusia affinis mg/L LC50 static|165: 24 h Poecilia reticulata mg/L LC50 270: 24 h Daphnia magna mg/L EC50

Persistence and degradability
The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

Mobility
Will likely be mobile in the environment due to its water solubility Miscible with water

Bioaccumulative Potential
Component Information:
Chemical name / Partition coefficient
Sulfonic acids, petroleum, sodium salts 18.05
Potassium hydroxide 0.83

Other Adverse Effects
No information available

13. Disposal considerations

Waste Disposal
Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Container Disposal
Do not reuse empty containers.

Other Information
Environmental regulations: No information available

14. Transport information

U.N. Number
None Allocated

UN proper shipping name
None Allocated

Transport hazard class(es)
None Allocated

UN Number (Air Transport, ICAO)
NCAD

IATA/ICAO Proper Shipping Name
Not dangerous for conveyance under IATA code

IMDG UN No
NCAD

IMDG Proper Shipping Name
Not dangerous for conveyance under IMO/IMDG code

Other Information
ADG: Not Regulated
IMDG: Not Regulated
IATA: Not Regulated

15. Regulatory information

Regulatory information
Australia:
See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP):
No poisons schedule number allocated

New Zealand
HSNO Hazard Classification:
6.4A - Substances that are irritating to the eye
9.1C - Substances that are harmful in the aquatic environment

HSNO Approval Number:
HSNO Approval Number: HSR002612
HSNO Group Standard: Metal Industry Products (Subsidiary hazard) GROUP STANDARD 2017.

International Inventories: Inventory information may be utilizing alternative CAS#s or exemptions beyond those stated within this document For further information, please contact: ProductStewardship@houghtonintl.com

TSCA: Complies
DSL: Complies
AICS: Complies
PICCS: Complies
KECL: Complies
IECSC: Complies
ENCS: Complies
TCSI: Complies
NZIoC: Complies

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

AICS - Australian Inventory of Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
ENCS - Japan Existing and New Chemical Substances
TCSI - Taiwan National Existing Chemical Inventory
NZIoC - New Zealand Inventory of Chemicals

International Regulations Ozone-depleting substances (ODS): Not applicable
Persistent Organic Pollutants: Not applicable
Chemicals Subject to Prior Informed Consent (PIC): Not applicable

Other Information
The highly refined base oil (Viscosity >20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Poisons Schedule
Not Scheduled

16. Other Information

User Codes

User Title Label	User Codes
Wis Numbers	02758067

Revisions Highlighted
Revision Note: This SDS has been revised in the following section(s), Company Logo.

Other Information
Version: 4

Key or legend to abbreviations and acronyms used in the safety data sheet:
TWA: Time weighted average
STEL: Short term exposure limit
Ceiling: Maximum limit value:
(s) - Skin: Skin designation
+: Sensitizers
C: Carcinogen
STOT SE - Specific target organ systemic toxicity (Single exposure)
STOT RE - Specific target organ systemic toxicity (repeated exposure)
VOC - Volatile organic compounds

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END OF SDS