SAFETY DATA SHEET

AEROKROIL

Infosafe No.: HYA76
ISSUED Date : 10/11/2020
ISSUED by: FURMANITE AUSTRALIA PTY LTD

1. Identification

GHS Product Identifier
AEROKROIL

Company name
FURMANITE AUSTRALIA PTY LTD

Address
4 Gateway Court Port Melbourne
VIC 3207 AUSTRALIA

Telephone/Fax Number
Tel: +61 3 9285 2200
Fax: +61 3 9645 2948

Emergency phone number
+61 3 9285 2200

Recommended use of the chemical and restrictions on use
Product Use: Penetrant/Lubricant for Industrial Use

Other Names

Name
AEROKROIL

Additional Information
E-mail: furmaniteAU@furmanite.com
Emergency Telephone Number (outside office hours): +61 (0) 3 9285 2200
POISON INFORMATION HOTLINE: AUSTRALIA 131126, NEW ZEALAND 0800764766

2. Hazard Identification

GHS classification of the substance/mixture
Aspiration Hazard: Category 1
Eye Damage/Irritation: Category 2A
Flammable Aerosol: Category 2
Gases under Pressure: Compressed Gas
Skin Corrosion/Irritation: Category 2
Sensitization - Skin: Category 1

Signal Word (s)
DANGER

Hazard Statement (s)
H223 Flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Pictogram (s)
Exclamation mark,Flame,Gas cylinder,Health hazard

Precautionary statement – Prevention
Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container. Do not pierce or burn, even after use.
Wash thoroughly after handling.
Contaminated clothing must not be allowed out of the workplace.
Wear protective gloves and eye protection.

Precautionary statement – Response
IF SWALLOWED: Immediately call a POISON CENTER.
Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
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 attention.
In case of fire: Use carbon dioxide, dry chemical or foam to extinguish.

Precautionary statement – Storage
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF.
P405 Store locked up.

Precautionary statement – Disposal
P501 Dispose of contents and container in accordance with local and national regulations.

3. Composition/information on ingredients

Ingredients

Name	CAS	Proportion
LVP Aliphatic Hydrocarbon	64742-47-8	20-40 %
PROPRIETARY ADDITIVE	PROPRIETARY	5-15 %
Diisobutyl ketone	108-83-8	5-15 %
Aliphatic Alcohol #1	123-42-2	1-<3 %
Aliphatic Alcohol #2	78-83-1	1-<3 %
Carbon dioxide propellant	124-38-9	1-5 %

Other Information
CHEMICAL NAME : Severely Hydrotreated Petroleum Distillates
CAS# :
64742-52-5
64742-53-6
% : 30-50

CHEMICAL NAME : LVP Aliphatic Hydrocarbon
CAS# : 64742-47-8
% : 20-40

CHEMICAL NAME : Proprietary Additive
CAS# : Proprietary
% : 5-15

CHEMICAL NAME : Diisobutyl Ketone
CAS# : 108-83-8
% : 5-15

CHEMICAL NAME : Aliphatic Alcohol #1
CAS# : 123-42-2
% : 1 – <3

CHEMICAL NAME : Aliphatic Alcohol #2
CAS# : 78-83-1
% : 1 – <3

CHEMICAL NAME : Carbon Dioxide Propellant
CAS# : 124-38-9
% : 1-5

The exact percentage has been withheld as a trade secret or is a variation in formula.

4. First-aid measures

Inhalation
Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms develop.

Ingestion
DO NOT induce vomiting. Keep the victim calm and warm. Never give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.

Skin
Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation or symptoms of exposure develop. Launder clothing before re-use.

Eye contact
Rinse thoroughly with water for several holding the eye lids open to be sure the material is washed out. Get medical attention if irritation develops or persists.

Indication of immediate medical attention and special treatment needed if necessary
If swallowed, get immediate medical attention.

Most important symptoms/effects, acute and delayed
May cause eye and skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects such as headache, dizziness, nausea and vomiting. Harmful or fatal if swallowed. Aspiration into the lungs during ingestion or vomiting may cause lung damage. May cause an allergic skin reaction.

5. Fire-fighting measures

Suitable Extinguishing Media
Use carbon dioxide, dry chemical or foam. Water may be ineffective but can be used to cool containers and structures.

Special Protective Equipment for fire fighters
Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water. Protect against bursting cans.

Specific Hazards Arising From The Chemical
Contents under pressure. Keep away from heat and open flames. Container may rupture or explode in the heat of a fire. Prolonged exposure to temperatures above 120°F may cause cans to burst. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.
Never use welding or cutting torch on or near containers (even empty) because product can ignite explosively. Combustion products may be hazardous: Oxides of carbon, organic compounds, smoke and fumes.

Decomposition Temperature
Not available

6. Accidental release measures

Emergency Procedures
Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Ventilate the area with explosion-proof equipment.

Methods And Materials For Containment And Cleaning Up
Place leaking can in a pail or pan in a well-ventilated area until the pressure has be released. Cover liquid with an inert absorbent material and collect into an appropriate container for disposal.

Environmental Precautions
Avoid release to the environment. Report spills and releases as required to appropriate authorities.

7. Handling and storage

Precautions for Safe Handling
Avoid breathing vapors, aerosols and mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash exposed skin thoroughly with soap and water after use. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Do not cut, braze, solder, grind or weld on or near containers. Contents under pressure. Do not puncture or incinerate container.

Conditions for safe storage, including any incompatibilities
Store in a cool, well ventilated area at temperatures below 120 °F. Do not store in direct sunlight. Store as a Level 3 aerosol .

8. Exposure controls/personal protection

Occupational exposure limit values
Chemical Name: Severely Hydrotreated Petroleum Distillates (as mineral oil)
Exposure Limits:

5 mg/m3 TWA OSHA PEL (as oil mist)
5 mg/m3 TWA ACGIH TLV (inhalable fraction)

Chemical Name: LVP Aliphatic Hydrocarbon
Exposure Limits:
166 ppm TWA Manufacturer Recommended (vapor)

Chemical Name: Proprietary Additive
Exposure Limits:
None Established

Chemical Name: Diisobutyl Ketone
Exposure Limits:
50 ppm TWA OSHA PEL
25 ppm TWA ACGIH TLV

Chemical Name: Aliphatic Alcohol #1
Exposure Limits:
50 ppm OSHA TWA PEL-
50 ppm TWA ACGIH TLV

Chemical Name: Aliphatic Alcohol #2
Exposure Limits:
100 ppm TWA OSHA PEL
50 ppm TWA ACGIH TLV

Chemical Name: Carbon Dioxide Propellant
Exposure Limits:

5000 ppm TWA OSHA PEL
5000 ppm TWA ACGIH TLV
30000 ppm STEL ACGIH TLV

Appropriate engineering controls
Use with adequate general or local exhaust ventilation to maintain concentrations below the occupational exposure limits. Use explosion proof electrical equipment and wiring where required.

Respiratory Protection
If the exposure limits listed above are exceeded, a NIOSH approved respirator with organic vapor cartridges may be used. For higher exposures, a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

Eye Protection
Chemical safety goggles recommended.

Hand Protection
Impervious gloves are recommended when needed to avoid skin contact.

Body Protection
SKIN PROTECTION: Impervious clothing as required to prevent skin contact and contamination of personal clothing.

Hygiene Measures
Suitable eye wash and washing facilities should be available in the work area.

9. Physical and chemical properties

Properties	Description	Properties	Description
Form	Liquid	**Appearance**	Slightly reddish liquid packaged as an aerosol
Odour	Solvent	**Decomposition Temperature**	Not available
Boiling Point	Not available	**Solubility in Water**	Negligible in Water
pH	Not available	**Vapour Pressure**	Not available
Vapour Density (Air=1)	Not available	**Evaporation Rate**	Not available
Odour Threshold	Not available	**Viscosity**	Not available
Partition Coefficient: n-octanol/water	Not available	**Flash Point**	55.5°C (Tag Open Cup) 132°F (Tag Open Cup)
Flammability	Not applicable (Solid, Gas)	**Auto-Ignition Temperature**	Not available
Flammable Limits - Lower	0.7% (petroleum distillates)	**Flammable Limits - Upper**	1 0. 9 % (alipha tic alcohol #2)
Relative density	0.8596	**Melting/Freezing Point**	Not available

10. Stability and reactivity

Reactivity
None known.

Chemical Stability
Stable under normal conditions of storage or use.

Conditions to Avoid
Avoid heat, sparks, flames and all other sources of ignition.

Incompatible materials
Avoid strong oxidizing agents, reducing agents, acids and bases.

Hazardous Decomposition Products
Combustion will produce oxides of carbon, acetone, acrid fumes and smoke.

Possibility of hazardous reactions
None known.

11. Toxicological Information

Toxicology Information
ACUTE TOXICITY: Toxicological testing has not been performed on this product as a mixture.

Acute Toxicity - Oral
LVP Aliphatic Hydrocarbon: Oral rat LD50 > 5000 mg/kg
Severely Hydrotreated Petroleum Distillates: Oral rat LD50 >5000 mg/kg
Proprietary Additive: Oral rat LD50 3200 mg/kg
Diisobutyl Ketone: Oral rat LD50 5233 mg/kg
Aliphatic Alcohol #1: Oral rat LD50 3002 mg/kg
Aliphatic Alcohol #2: Oral rat LD50 > 2830 mg/kg

Acute Toxicity - Inhalation
LVP Aliphatic Hydrocarbon: Inhalation rat LC50 > 2.18 mg/L/4 hr.
Severely Hydrotreated Petroleum Distillates: Inhalation rat LC50 >5.28 mg/L/4 hr
Diisobutyl Ketone: Inhalation rat LC50 14.5 mg/L/4 hr.
Aliphatic Alcohol #1: Inhalation rat LC50> 7.6 mg/L/4 hr.
Aliphatic Alcohol #2: Inhalation rat LC50 24.6 mg/L/4 hr
Carbon Dioxide: Inhalation rat LC50 167857 ppm/4 hr

Acute Toxicity - Dermal
LVP Aliphatic Hydrocarbon: Dermal rat LD50 > 5000 mg/kg,
Severely Hydrotreated Petroleum Distillates: Dermal rabbit LD50 >2000 mg/kg
Proprietary Additive: Dermal rabbit LD50 5000 mg/kg
Diisobutyl Ketone: Dermal rat LD50 > 2000 mg/kg
Aliphatic Alcohol #1: Dermal rat LD50 > 1875 mg/kg
Aliphatic Alcohol #2: Dermal rabbit LD50 > 2000 mg/kg

Ingestion
Ingestion is an unlikely route of exposure for aerosol products. Swallowing may cause gastrointestinal irritation with abdominal pain, nausea, vomiting and diarrhea and central nervous system depression with symptoms including headache, dizziness, intoxication, weakness, nausea, and vomiting. Aspiration into the lungs during ingestion or vomiting may cause lung damage.

Inhalation
Inhalation of vapors or mists may cause mucous membrane and upper respiratory tract irritation and central nervous system depression. Symptoms may include coughing, wheezing, shortness of breath, headache, dizziness, drowsiness, nausea, fatigue and unconsciousness.

Skin
May cause irritation with redness, rash, swelling. Prolonged or repeated contact may result in defatting and dermatitis. Repeated skin contact may cause sensitization (allergic skin reaction) in some individuals.

Eye
May cause eye irritation with redness, tearing and stinging.

Carcinogenicity
CARCINOGEN STATUS: None of the components of this product at greater than 0.1% are listed as carcinogens by OSHA, IARC or NTP.

Chronic Effects
Aliphatic Alcohol #1 is suspected of damaging fertility or the unborn child.

12. Ecological information

Ecotoxicity
No toxicity data available for the product.

LVP Aliphatic Hydrocarbon: 96 hr. LC50 Pimephales promelas > 100 mg/L; 48 hr. EC50 daphnia magna>1000 mg/L; 72 hr. EC50 Pseudokirchnerella subcapitata > 100 mg/L

Severely Hydrotreated Petroleum Distillates: 96 hr LL50 Oncorhynchus mykiss 2.5 mg/kg, 48 hr EL50 daphnia magna 1.4 mg/L, 72 hr EL50 Pseudokirchnerella subcapitata 1.3 mg/L

Proprietary Ingredient: 48 hr. LC50 daphnia magna 17-28 mg/L

Diisobutyl Ketone: 96 hr. LC50 Oncorhynchus mykiss 30 mg/L; 48 hr. EC50 daphnia magna 37.2 mg/L, 72 hr.

Aliphatic Alcohol #1: 96 hr. LC50 Oryzias latipes >100 mg/L; 48 hr. EC50 daphnia magna >1000 mg/L; 72 hr. EC50 Pseudokirchnerella subcapitata>1000 mg/L

Aliphatic Alcohol #2: 96 hr LC50 Pimephales promelas 1430 mg/L; 48 hr EC50 daphnia pulex 1100 mg/L; 72 hr EC50 Pseudokirchnerella subcapitata 1799 mg/L

Carbon Dioxide: 96 hr LC50 Oncorhynchus mykiss 35 mg/L

Persistence and degradability
Aliphatic Alcohol #1 and Aliphatic Alcohol #2 are readily biodegradable.

Mobility
MOBILITY IN SOIL: No data available

Bioaccumulative Potential
No data available.

Other Adverse Effects
None known

13. Disposal considerations

Disposal considerations
Disposal instructions: Dispose of product in accordance with all local, state/provincial and federal regulations. Do not puncture or incinerate.

Container Disposal
CONTAMINATED PACKAGING: Offer empty packaging material to local recycling facilities.

14. Transport information

U.N. Number
1950

UN proper shipping name
Aerosols, Flammable, Limited Quantity

Transport hazard class(es)
2.1

IERG Number
49

UN Number (Air Transport, ICAO)
1950

IATA/ICAO Proper Shipping Name
Aerosols, Flammable, Limited Quantity

IATA/ICAO Hazard Class
2.1

IMDG UN No
1950

IMDG Proper Shipping Name
Aerosols, Limited Quantity

IMDG Hazard Class
2.1

Special Precautions for User
None known.

Other Information
DOT / 49 CFR GROUND
Proper shipping name: Limited Quantity

DOT AIR
UN Number: UN1950
Proper shipping name: Aerosols, Flammable, Limited Quantity
Hazard Class: 2.1
Packing Group: None
Environmental Hazard: None

IMDG
UN Number: UN1950
Proper shipping name: Aerosols, Limited Quantity
Hazard Class: 2.1
Packing Group: None
Environmental Hazard: None

IATA
UN Number: UN1950
Proper shipping name: Aerosols, Flammable, Limited Quantity
Hazard Class: 2.1
Packing Group: None
Environmental Hazard: None

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

15. Regulatory information

Regulatory information
U.S. FEDERAL REGULATIONS:
CERCLA 103 Reportable Quantity: This product has a Reportable Quantity (RQ) of 166,666 lbs. (based on the RQ for Aliphatic alcohol #2 of 5,000 lbs present at 3%) maximum. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations

STATE REPORTING REGULATIONS:
Massachusetts Right To Know: Diacetone Alcohol 123-42-2, Isbutanol 78-83-1, Diisobutyl Ketone 108-83-8, Carbon Dioxide 124-38-9

New Jersey Right To Know: Isbutanol 78-83-1, Diisobutyl Ketone 108-83-8, Carbon Dioxide 124-38-9, Pine Oil 8002-09-3

Pennsylvania Right To Know: Diacetore Alcohol 123-42-2, Isbutanol 78-83-1, Diisobutyl Ketone 108-83-8, Carbon Dioxide 124-38-9

California Proposition 65: WARNING: This product can expose you to chemicals including beta-myrcene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

SARA TITLE III:

Hazard Category for Section 311/312: Refer to Section 2 for the OSHA Hazard Classification

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None.

Section 302 Extremely Hazardous Substances (TPQ): None

Canada (DSL/NDSL)
All of the components of this product are listed on the Canadian Domestic Substances List

USA (TSCA)
All of the components of this product are listed on the TSCA inventory.

16. Other Information

User Codes

User Title Label	User Codes
Wis Numbers	03469538

Revisions Highlighted
SDS REVISION HISTORY: Updated formulation – Section 15

Other Information
HMIS Ratings: Health - 2 Flammability - 4 Physical Hazard - 0

NFPA Ratings: Health - 1 Flammability - 2 Instability - 0

This SDS has been transcribed into Infosafe GHS format from an original, issued by the manufacturer on the date shown. Any disclaimer by the manufacturer may not be included in the transcription.

END OF SDS