# **SAFETY DATA SHEET**



Revision date: 13-Sep-2021

Revision Number 3

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product identifier** 

Product Name MOLAC TM

**Product Code(s)** 000000039428

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use Lubricant. Industrial applications.

**Uses advised against** No information available.

Details of the supplier of the safety data sheet

Supplier

Ixom Operations Pty Ltd (Bronson & Jacobs division) - incorporated in Australia

Street Address: 166 Totara Street

Mt Maunganui South

New Zealand

Telephone Number: +64 9 309 2528 Facsimile: +64 9 0508 366 364

For further information, please contact

Contact Point Product Safety Department

Emergency telephone number

Emergency Telephone 0 800 734 607 (ALL HOURS)

# 2. HAZARDS IDENTIFICATION

Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.

Based on available information, not classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

GHS Classification

Label elements

**Hazard statements** 

#### Other hazards which do not result in classification

May be harmful in contact with skin

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Mixture**

Chemical name	CAS No.	Weight-%
Distillates, petroleum, hydrotreated light naphthenic	64742-53-6	30-45
Distillates, petroleum, hydrotreated heavy	64742-52-5	5-25
naphthenic		
Di(tert-dodecyl)polysulfide	68425-15-0	1-4

# 4. FIRST AID MEASURES

**Description of first aid measures** 

Emergency telephone number Poisons Information Center, New Zealand: 0800 764 766

Poisons Information Center, Australia: 13 11 26

**Inhalation** Remove to fresh air. Call a physician if symptoms occur.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water. Call a physician if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Get medical attention if symptoms

occur.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

# 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

**Suitable Extinguishing Media** Foam. Dry chemical or CO2.

**Unsuitable extinguishing media**Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Combustible material. In the event of fire, cool tanks with water spray.

Hazardous combustion products Carbon oxides. Hydrocarbons. Aldehydes. Soot. Oxides of sulfur. Hydrogen sulfide.

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Special protective actions for fire-fighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin and eyes. Ensure adequate ventilation. Do not touch or walk

through spilled material. Remove all sources of ignition. Take precautionary measures against static discharges. Evacuate personnel to safe areas. Wash thoroughly after

handling. Extremely slippery when spilled.

**Environmental precautions** 

**Environmental precautions** Prevent product from entering drains. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled

material and place in suitable container. Avoid generating dust.

Precautions to prevent secondary hazards

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes, and clothing. Do not breathe vapor or mist. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and

explosion proof. Take precautionary measures against static discharges.

General hygiene considerations Regular cleaning of equipment, work area and clothing is recommended. Wash hands

before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Do not dry hands with rags that have been contaminated with product. Do not put contaminated rags into workwear products.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct

sunlight. Store away from foodstuffs and sources of heat or ignition. Protect against frost.

Protect from moisture. Keep container closed when not in use.

**Incompatible materials** Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### Control parameters

#### **Exposure Limits**

No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for constituent(s):

Oil mist, mineral: WES-TWA 5 mg/m3, WES-STEL 10 mg/m3

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

WES - STEL (Workplace Exposure Standard - Short Term Exposure Limits) - The 15 minute average exposure standard. Applies to any 15 minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both short-term and eight-hour, time-weighted average exposures should be determined.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

#### Appropriate engineering controls

#### **Engineering controls**

Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

### Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.



Eye/face protection

Glasses.

Hand protection

Impervious gloves.

Skin and body protection

Wear suitable protective clothing. Overalls. Antistatic boots.

Respiratory protection

If determined by a risk assessment an inhalation risk exists, wear an organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Environmental exposure controls** 

No information available.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid **Appearance** Paste Color Black

Odor Characteristic

**Odor threshold** No information available.

Values Remarks • Method **Property** 

No data available None known рΗ Melting point / freezing point No data available None known Boiling point / boiling range No data available None known

>= 149 °C Flash point Cleveland Open Cup **Evaporation rate** < 1 (n-butyl acetate = 1) @ 25 °C

Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

@ 38 °C Vapor pressure <0.15 hPa Vapor density (air = 1)>5 Relative density @ 25 °C <1 None known Water solubility No data available

Insoluble in water. Soluble in organic Solubility(ies) None known

solvents.

Partition coefficient No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known

Other information

# 10. STABILITY AND REACTIVITY

Reactivity

No information available. Reactivity

**Chemical stability** 

Stable under normal conditions. Stability

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge Yes.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

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**Conditions to avoid** Heat, flames and sparks. Static discharge (electrostatic discharge).

Incompatible materials

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition products** 

Hazardous decomposition products Carbon oxides. Hydrocarbons. Aldehydes. Soot. Oxides of sulfur. Hydrogen sulfide.

### 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

### Information on likely routes of exposure

Product Information No adverse health effects expected if the chemical is handled in accordance with this

Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the

chemical is mishandled and overexposure occurs are:

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** May cause irritation.

Skin contact Prolonged or repeated contact may dry skin and cause irritation. High pressure injection of

product into the skin may have very serious consequences even though symptoms or injuries may not be apparent. Characteristic skin lesions (pimples) may develop following

prolonged and repeated exposures (contact with contaminated clothing).

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Symptoms** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Acute toxicity** 

**Numerical measures of toxicity** 

ATEmix (oral) 9,808 mg/kg ATEmix (dermal) 4,226 mg/kg ATEmix (inhalation-vapor) 1,005 mg/l ATEmix (inhalation-dust/mist) 10.2 mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Distillates, petroleum,	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2180 mg/m <sup>3</sup> (Rat) 4 h
hydrotreated light naphthenic			-
Distillates, petroleum,	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
hydrotreated heavy naphthenic			

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization Not classified.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classified.

Chemical name	New Zealand	IARC
Distillates, petroleum, hydrotreated light naphthenic - 64742-53-6		Group 1
Distillates, petroleum, hydrotreated heavy naphthenic - 64742-52-5		Group 1

**Reproductive toxicity**This product does not contain any known or suspected reproductive hazards.

STOT - single exposure No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity** Keep out of waterways.

**Terrestrial ecotoxicity** There is no data for this product.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Distillates, petroleum,	-	LC50: >5000mg/L (96h,	EC50: >1000mg/L (48h, Daphnia
hydrotreated light naphthenic		Oncorhynchus mykiss)	magna)
Distillates, petroleum,	-	LC50: >5000mg/L (96h,	EC50: >1000mg/L (48h, Daphnia
hydrotreated heavy naphthenic		Oncorhynchus mykiss)	magna)
Di(tert-dodecyl)polysulfide	-	LC50: >100mg/L (96h, Danio rerio)	-

Persistence and degradability

Persistence and degradability Readily biodegradable.

Bioaccumulative potential

**Bioaccumulation** Bioaccumulation is not expected.

**Mobility** 

**Mobility in soil** No information available.

**Mobility** The product is insoluble and floats on water.

Chemical name	Partition coefficient
Di(tert-dodecyl)polysulfide	6.2

Other adverse effects

Other adverse effects No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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Waste from residues/unused

products

Dispose of in accordance with federal, state and local regulations. Dispose of waste in

accordance with environmental legislation.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on

Land; NON-DANGEROUS GOODS.

IATA Not classified as Dangerous Goods by the criteria of the International Air Transport

Association (IATA) Dangerous Goods Regulations for transport by air;

NON-DANGEROUS GOODS.

**IMDG**Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous

Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

# 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

**New Zealand** 

National regulations See section 8 for national exposure control parameters

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**International Inventories** 

**NZIOC**All the constituents of this material are listed on the New Zealand Inventory of Chemicals.

Contact supplier for inventory compliance status. **TSCA** Contact supplier for inventory compliance status. **DSL/NDSL** Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. **ENCS** Contact supplier for inventory compliance status. **IECSC** Contact supplier for inventory compliance status. **KECL PICCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **AIIC** 

Legend:

NZIoC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

- Australian Inventory of Industrial Chemicals

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

#### The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### 16. OTHER INFORMATION

Supplier Safety Data Sheet; 06/2015

**Prepared By** This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and

SDS Services).

**Issuing Date:** 13-Sep-2021

Reason(s) For Issue: Reissue of an obsolete SDS

#### **Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (time-weighted average) STEL (Short Term Exposure Limit) TWA STEL

Ceilina Maximum limit value Skin designation

Carcinogen

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian Industrial Chemicals Introduction Scheme (AICIS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

#### **Disclaimer**

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Bronson & Jacobs representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of

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which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris.

**End of Safety Data Sheet**