# SAFETY DATA SHEET



Revision Number 6

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product identifier** 

Revision date: 06-Jul-2022

**Product Name** OIL OF LIME DISTILLED

Product Code(s) 000000033023

Other means of identification

TERPENE HYDROCARBONS, N.O.S. (CONTAINS D-LIMONENE) Proper shipping name

**UN** number 2319

8008-26-2 CAS No.

**Chemical name** Oils, lime

Oil Lime Distilled West Indian Type FCC; AAOIL00525; AAOIL00530; Lime Oil Dist 5 F; **Synonyms** 

Five Fold Lime Oil (Distilled); AALIM00061

Recommended use of the chemical and restrictions on use

Essential oil. Recommended use

No information available. Uses advised against

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)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

# 2. HAZARDS IDENTIFICATION

Classified as a Dangerous Good according to NZS 5433 Transport of Dangerous Goods on Land; DANGEROUS GOODS.

Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

#### GHS Classification

#### SIGNAL WORD

Danger

#### EPA New Zealand HSNO approval code or group standard

Food Additives and Fragrance Materials (Flammable) Group

Standard 2020

Approval Number: HSR002576

Flammable liquids	Category 3
Aspiration hazard	Category 1
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

#### Label elements



#### **Hazard statements**

H226 - Flammable liquid and vapor

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

H410 - Very toxic to aquatic life with long lasting effects

### **Precautionary Statements - Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Ground/bond container and receiving equipment

Use explosion-proof electrical, ventilating, lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Avoid breathing dust / fume / gas / mist / vapours / spray

Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves / protective clothing / eye protection / face protection

Keep container tightly closed

Avoid release to the environment

### **Precautionary Statements - Response**

Specific treatment (see First aid on this SDS)

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

In case of fire: Use extinguishing media as outlined in Section 5 of this Safety Data Sheet to extinguish.

Collect spillage

# **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other hazards which do not result in classification

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Contains d-limonene (CAS number: 5989-27-5), ~45%.

Chemical name	CAS No.	Weight-%
Oils, lime	8008-26-2	100

# 4. FIRST AID MEASURES

Description of first aid measures

General advice Immediate medical attention may be required Show this safety data sheet to the doctor in

attendance.

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

Poisons Information Center, Australia: 13 11 26

**Inhalation** Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is

irregular or stopped, administer artificial respiration. Call a physician if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation or rash occurs: Get medical advice/attention.

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

to an unconscious person. Do NOT induce vomiting. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Call a physician

immediately.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin,

eyes, and clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Irritation. May cause redness and tearing of the eyes. May cause allergic skin reaction.

Redness. Rashes. Hives. Aspiration risk: may cause lung damage if swallowed.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization by skin contact. Delayed pulmonary edema may occur. Treat

symptomatically.

# 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** 

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Foam.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Flammable. Risk of ignition. Keep product and empty container away from heat and sources of ignition. Containers may explode when heated. In the event of fire, cool tanks with water spray. Runoff may create fire or explosion hazard. Environmentally hazardous. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Hazardous combustion products Oxides of carbon.

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.

Hazchem code 3Y

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists. Ensure

adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled

material.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders Shut off ignition sources. Clear area of all unprotected personnel. Use personal protection

recommended in Section 8.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter into soil/subsoil.

Prevent product from entering drains. Refer to protective measures listed in Sections 7 and

8.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Take precautionary measures against static

discharges. Use only non-sparking tools. Pick up and transfer to properly labelled

containers.

Precautions to prevent secondary hazards

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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 Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists. Keep away

from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use personal protection equipment. Take off contaminated clothing and wash before reuse. Use according to package label instructions. Handle in accordance with good industrial hygiene

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and safety practice.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Remove and wash contaminated

clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Wear suitable gloves and eye/face protection.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Do not store near combustible materials. Protect from sunlight. Store away from incompatible materials (refer to SDS). Keep in properly labelled containers. Keep in an area equipped with sprinklers. Store in accordance with local

regulations. Store in accordance with the particular national regulations.

**Incompatible materials** Oxidizing agents. Acidic clays. Mineral acids.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure Limits No value assigned for this specific material by the New Zealand Workplace Health & Safety

Authority.

### Appropriate engineering controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

### 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, CHEMICAL GOGGLES, GLOVES.



Eye/face protection Goggles.

Hand protection Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Antistatic boots. Overalls.

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 Liquid Appearance Clear

Color Colourless to Pale Yellow

**Odor** Citrus

Odor threshold No information available.

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

PH No data available None known

Melting point / freezing point -90 °C

Boiling point / boiling range 175 - 178 °C

Flash point 45 - 48 °C CC (closed cup)

**Evaporation rate** 5.8 (diethyl ether = 1)

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

Upper flammability or explosive 6.1

limits

Lower flammability or explosive 0.7

limits

Vapor pressure 2 mmHg @ 25 °C

Vapor density 4.7

Solubility(ies) Insoluble in water

Partition coefficient 4.23 Autoignition temperature 237 °C

Decomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information >92

# 10. STABILITY AND REACTIVITY

Reactivity

**Reactivity** No information available.

**Chemical stability** 

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

Possibility of hazardous reactions

Possibility of hazardous reactions Heating can cause expansion or decomposition of the material, which can lead to the

containers exploding.

Conditions to avoid

Conditions to avoid Heat, flames and sparks. Static discharge (electrostatic discharge). Avoid contact with

combustible substances. Direct sunlight.

Incompatible materials

**Incompatible materials** Oxidizing agents. Acidic clays. Mineral acids.

**Hazardous decomposition products** 

Hazardous decomposition products Oxides of carbon.

# 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.

**Eye contact** Causes serious eye irritation.

**Skin contact** Causes skin irritation. May cause sensitization by skin contact.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May be fatal

if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis.

Symptoms Irritation. May cause redness and tearing of the eyes. May cause allergic skin reaction.

Redness. Rashes. Hives. Aspiration risk: may cause lung damage if swallowed.

**Acute toxicity** 

Numerical measures of toxicity

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50

Oils, lime	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

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** Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

**Respiratory or skin sensitization** May cause sensitization by skin contact.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

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

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

Aspiration hazard May be fatal if swallowed and enters airways. Risk of serious damage to the lungs (by

aspiration).

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity** Very toxic to aquatic life with long lasting effects. Keep out of waterways.

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

Persistence and degradability

Persistence and degradability Partially biodegradable.

Bioaccumulative potential

Bioaccumulation This chemical shows a high bioaccumulation potential.

**Mobility** 

Mobility in soil No information available.

Other adverse effects

Other adverse effects No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products

Dispose of product in packaging/container in a way that is consistent with the Hazardous Substances (Disposal) Notice 2017 and the Act, and Hazardous Substances (Amendments and Revocations) Notice 2020. Treat the chemical using a method that changes the characteristics or composition of the chemical so that the chemical is no longer a hazardous chemical; or export the chemical from New Zealand as waste. Class 2, 3 and 4 chemicals may not be disposed of into or onto a landfill or sewage facility. They may only be burnt in certain situations. Class 2.1.1, 3.1 and 4.1.1 chemicals may only be discharged into the environment as waste if the substance will not at any time come into contact with class 1 or class 5 substances; and there will be no ignition source in the vicinity of the disposal site at any time and if the substance were to ignite, no person, or place where a person may legally be, would be exposed to an unsafe level of heat radiation.

Contaminated packaging

For packages that have been in direct contact with hazardous chemicals, the person must ensure that the package is rendered incapable of containing any chemical. It must be disposed of in a manner that is consistent with the requirements for disposal of the chemical that it contained, taking into account the material the package is manufactured from. Packages may only be reused or recycled if the package has been treated to remove any residual contents of the hazardous chemical (class 1, 2, 3, 4, or 5); or the contents of the residue in the package are below the threshold for the chemical to be classified as hazardous (class 6, 8, or 9 chemical).

## 14. TRANSPORT INFORMATION

Classified as a Dangerous Good according to NZS 5433 Transport of Dangerous Goods on **ROAD AND RAIL TRANSPORT** 

Land: DANGEROUS GOODS.

**UN** number 2319

Proper shipping name TERPENE HYDROCARBONS, N.O.S. (CONTAINS D-LIMONENE)

**Hazard class** Packing group Ш **Environmental hazard** Yes Hazchem code **3Y** 

IATA Classified as Dangerous Goods by the criteria of the International Air Transport Association

(IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

**UN** number

**UN** proper shipping name TERPENE HYDROCARBONS, N.O.S. (CONTAINS D-LIMONENE)

Transport hazard class(es) Packing group Ш

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous **IMDG** 

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

**UN** number 2319

**UN proper shipping name** TERPENE HYDROCARBONS, N.O.S. (CONTAINS D-LIMONENE)

Transport hazard class(es) **Packing group** Ш **IMDG EMS Fire** F-E IMDG EMS Spill S-D Marine pollutant Yes

### 15. REGULATORY INFORMATION

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

**New Zealand** 

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National regulations See section 8 for national exposure control parameters

EPA New Zealand HSNO approval code or group standard Food Additives and Fragrance Materials (Flammable) Group

Standard 2020

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**International Inventories** 

NZIOC This material is listed on the New Zealand Inventory of Chemicals.

TSCA

Contact supplier for inventory compliance status.

AIIC This material is listed on the Australian Inventory of Industrial Chemicals.

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

AIIC - 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 06/2018

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

SDS Services).

Issuing Date: 06-Jul-2022

Reason(s) For Issue: Revised Primary SDS

Change in Hazardous Chemical Classification

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

Ceiling Maximum limit value \* Skin designation

#### C 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 which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris and Australian Botanical Products.

**End of Safety Data Sheet**