# SAFETY DATA SHEET



Revision date: 22-Jul-2022

**Revision Number** 3

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product identifier** 

Product Name FRAGRANCE LIME, BASIL & MANDARIN 2A646

Product Code(s) 000000038902

Other means of identification

UN number 3082

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Fragrances.

Uses advised against No information available.

**Supplier** 

Ixom Operations Pty Ltd (Bronson & Jacobs division) - incorporated in Australia ABN:51 600 546 512 70 Marple Avenue Villawood NSW 2163 Australia

Telephone Number: +61 2 8717 2929

Facsimile: +61 2 9755 9611

#### Emergency telephone number

Emergency telephone number 1 800 033 111 (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

### GHS Classification

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail when transported by road or rail in: packagings that do not incorporate a receptacle exceeding 500 kg(L); or IBCs.

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Flammable liquids	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

#### **SIGNAL WORD**

Warning

#### Label elements

Environment Exclamation mark

### **Hazard statements**

H227 - Combustible liquid

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

The following health/environmental hazard categories fall outside the scope of the Workplace Health and Safety Regulations: H411 - 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

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

Contaminated work clothing should not be allowed out of the workplace

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

Wash hands thoroughly after handling

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 eve irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

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

Take off contaminated clothing and wash it before reuse

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 in a well-ventilated place

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other hazards which do not result in classification

Toxic to aquatic life

Poisons Schedule (SUSMP) 5

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

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#### Mixture

Chemical name	CAS No.	Weight-%
3-Buten-2-one,	127-51-5	1-<10
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-		
(Isomethylalphaionone)		
d-Limonene	5989-27-5	1-<10
Octanal, 7-hydroxy-3,7-dimethyl-	107-75-5	1-<10
trans-Anethol	4180-23-8	1-<10
Pine oil	8002-09-3	1-<10
Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate	32210-23-4	1-<10
Mandarin oil	8008-31-9	1-<10
Oils, lime	8008-26-2	1-<10
Diethyl phthalate	84-66-2	1-<10
Ingredients determined not to be hazardous	-	to 100

## 4. FIRST AID MEASURES

### **Description of first aid measures**

General advice For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New

Zealand 0800 764 766) or a doctor.

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

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

not rub affected area. 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. Consult a physician if necessary.

### 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.

# Indication of any immediate medical attention and special treatment needed

**Note to physicians** May cause sensitization by skin contact. Treat symptomatically.

# 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** 

Suitable Extinguishing Media Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal

protein foam can be used.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

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Specific hazards arising from the

chemical

Combustible liquid. On burning will emit toxic fumes, including those of oxides of carbon. In the event of fire, cool tanks with water spray. Environmentally hazardous. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local

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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.

•3Z Hazchem code

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

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

adequate ventilation. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Use personal protective

equipment as required.

Other information Ventilate the area.

Shut off ignition sources. Use personal protection recommended in Section 8. For emergency responders

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not allow to enter into soil/subsoil. **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 Stop leak if you can do it without risk. Remove ignition sources. Provide adequate

ventilation. Do not touch or walk through spilled material. 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 Slippery when spilt. Avoid accidents, clean up immediately. Use non-sparking tools. Dam

up. Soak up with inert absorbent material. Pick up and transfer to properly labelled

containers.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists. Ensure Advice on safe handling

adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protection equipment. Take precautionary measures against static discharges. Take off contaminated clothing and wash before reuse. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and

safety practice. Keep out of reach of children.

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

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.

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

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

Store away from foodstuffs and sources of heat or ignition. Store away from incompatible materials described in Section 10. Store at around 15°C. Keep container closed when not in

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Classified as a C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and

transport requirements.

This material is a Scheduled Poison and must be stored, maintained and used in

accordance with the relevant regulations.

Strong oxidizing agents. Incompatible materials

Poisons Schedule (SUSMP) 5

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

**Exposure Limits** No value assigned for this specific material by Safe Work Australia. However, Workplace

Exposure Standard(s) for constituent(s):

Diethyl phthalate: 8hr TWA = 5 mg/m<sup>3</sup>

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

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** Ensure adequate ventilation, especially in confined areas. 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, CHEMICAL GOGGLES, GLOVES.

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Eye/face protection Goggles.

Wear suitable protective clothing. Overalls. Boots. Skin and body protection

Impervious gloves. Hand protection

Respiratory protection If determined by a risk assessment an inhalation risk exists, wear an organic vapour

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 Yellow to Dark yellow

Fresh, Lime, Basil, Mandarin, Green, Fruity, Floral, Citrus, Ambery, Woody, Musky Odor

**Odor threshold** No information available.

Property Values Remarks • Method

No data available None known pН None known pH (as aqueous solution) No data available Melting point / freezing point No data available None known Boiling point / boiling range No data available None known Flash point 71 °C CC (closed cup) **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known None known

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available Vapor pressure None known Vapor density No data available None known 0.908 - 0.928 @20°C Relative density None known None known Water solubility No data available Solubility(ies) No data available None known **Partition coefficient** No data available None known No data available **Autoignition temperature** 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

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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 
None under normal processing.

Conditions to avoid

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

combustible substances. Direct sunlight. Do not contaminate food or feed stuffs.

**Incompatible materials** 

Incompatible materials Strong oxidizing agents.

**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.

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

Redness. Rashes. Hives.

Numerical measures of toxicity - Product Information

ATEmix (oral) >5000 mg/kg

Numerical measures of toxicity - Component Information

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
3-Buten-2-one,	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
3-methyl-4-(2,6,6-trimethyl-2-cy			
clohexen-1-yl)-			
(Isomethylalphaionone)			
d-Limonene	= 5200 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
	= 4400 mg/kg (Rat)		
Octanal,	> 5000 mg/kg (Rat)	-	-
7-hydroxy-3,7-dimethyl-			
trans-Anethol	= 2090 mg/kg (Rat)	-	-
Pine oil	= 3200 mg/kg (Rat)	= 5000 mg/kg ( Rabbit )	> 3.79 mg/L (Rat) 4 h
Mandarin oil	> 5000 mg/kg (Rat)	> 5000 mg/kg ( Rabbit )	-
Oils, lime	> 5000 mg/kg (Rat)	> 5000 mg/kg ( Rabbit )	-
Diethyl phthalate	= 8600 mg/kg (Rat)	> 11200 mg/kg (Rat)	> 4.64 mg/L (Rat) 6 h

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. Classification is based on mixture calculation methods based on

component data.

Serious eye damage/eye irritation Causes serious eye irritation. Classification is based on mixture calculation methods based

on component data.

**Respiratory or skin sensitization** May cause sensitization by skin contact. Classification is based on mixture calculation

methods based on component data.

**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** No information available.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
d-Limonene	-	LC50: 0.619 - 0.796mg/L	-	-
		(96h, Pimephales		
		promelas) LC50:		
		=35mg/L (96h,		

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_		Oncorhynchus mykiss)		
Pine oil	-	-	-	EC50: 17 - 28mg/L (48h Daphnia magna)
Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate	-	LC50: =8.6mg/L (96h, Cyprinus carpio) LC50: =15.5mg/L (48h, Leuciscus idus)	-	EC50: =9.6mg/L (24h, Daphnia magna)
Diethyl phthalate	EC50: =23mg/L (72h, Desmodesmus subspicatus) EC50: =21mg/L (96h, Desmodesmus subspicatus) EC50: 42 - 255mg/L (72h, Pseudokirchneriella subcapitata) EC50: 2.11 - 4.29mg/L (96h, Pseudokirchneriella	LC50: =17mg/L (96h, Pimephales promelas) LC50: =16.8mg/L (96h, Pimephales promelas) LC50: =22mg/L (96h, Lepomis macrochirus) LC50: =16.7mg/L (96h, Lepomis macrochirus) LC50: =12mg/L (96h, Oncorhynchus mykiss)	-	EC50: 36 - 74mg/L (48h Daphnia magna) EC50: =86mg/L (48h, Daphnia magna)

Persistence and degradability

Persistence and degradability No information available.

subcapitata)

Bioaccumulative potential

**Bioaccumulation** No information available.

**Component Information** 

Chemical name	Partition coefficient	
d-Limonene	4.23	
Diethyl phthalate	2.35	

**Mobility** 

**Mobility in soil** No information available.

Other adverse effects

**Endocrine Disruptor Information** 

	Chemical name	EU - Endocrine Disrupters	EU - Endocrine Disruptors -	Endocrine disrupting potential
		Candidate List	Evaluated Substances	
	Diethyl phthalate Group III Chemical		-	-

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

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

# 14. TRANSPORT INFORMATION

ADG

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Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and

Rail; DANGEROUS GOODS.

UN number 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS

D-LIMONENE)

Hazard class 9
Packing group III
Environmental hazard Yes

**Special Provisions** 274, 331, 335, 375, AU01

Hazchem code •3Z

#### 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 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS

D-LIMONENE)

Transport hazard class(es) 9
Packing group III

#### IMDG

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS

D-LIMONENE)

Transport hazard class(es)

Packing group

III

IMDG EMS Fire
F-A

IMDG EMS Spill
S-F

Marine pollutant

Yes

# 15. REGULATORY INFORMATION

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

### **National regulations**

#### Australia

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

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Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

See section 8 for national exposure control parameters

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National pollutant inventory

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Subject to reporting requirement

Chemical name	National pollutant inventory	
d-Limonene - 5989-27-5	20 MW Threshold category 2b total	
	60000 MWH Threshold category 2b total	
	1 tonne/h Threshold category 2a total	
	25 tonne/yr Threshold category 1a total	
	400 tonne/yr Threshold category 2a total	
	2000 tonne/yr Threshold category 2b total	

**International Inventories** 

AIIC All the constituents of this material are listed on the Australian Inventory of Industrial

Chemicals.

Legend:

**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**

Reason(s) For Issue: 5 Yearly Revised Primary SDS

22-Jul-2022 **Issuing Date:** 

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

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

Maximum limit value Skin designation

Ceiling

Carcinogen

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

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)

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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**