SAFETY DATA SHEET

Revision date: 30-Oct-2020

Revision Number 4

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier

Product Name LEMON FRAGRANCE G102

Product Code(s) 000000032069

Other means of identification

UN number 1266

Recommended use of the chemical and restrictions on use

Recommended use Fragrances.

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)**

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 5433:2012 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 and the Hazardous Substances (Classification) Notice 2017.

GHS Classification

SIGNAL WORD
Danger

Flammable liquids	Category 3 (HSNO - 3.1C)

Aspiration hazard	Category 1 (HSNO - 6.1E)
Acute toxicity - Oral	Category 4 (HSNO - 6.1D)
Acute toxicity - Dermal	Category 5 (HSNO - 6.1E)
Skin corrosion/irritation	Category 2 (HSNO - 6.3A)
Serious eye damage/eye irritation	Category 1 (HSNO - 8.3A)
Skin sensitization	Category 1B (HSNO - 6.5B)
Reproductive toxicity	Category 2 (HSNO - 6.8B)
Specific target organ toxicity (repeated exposure)	Category 2 (HSNO - 6.9B)
Acute aquatic toxicity	Category 1 (HSNO - 9.1A)
Chronic aquatic toxicity	Category 1 (HSNO - 9.1A)
New Zealand Soil toxicity	HSNO - 9.2B

Label elements

Hazard statements
H226 - Flammable liquid and vapor
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H313 - May be harmful in contact with skin
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Do not breathe fume, gas, mist, vapours, spray
Avoid release to the environment
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Use explosion-proof electrical, ventilating, lighting equipment

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
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
Immediately call a POISON CENTER or doctor/physician
If skin irritation or rash occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Rinse mouth
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting
In case of fire: Use CO2, dry chemical, or foam for extinction
Collect spillage

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017. This may also include any method of disposal that must be avoided.

Other hazards which do not result in classification

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	CAS No.	Weight-%
d-Limonene	5989-27-5	20-30%
Citral	5392-40-5	10-20%
Coumarin	91-64-5	10-20%
.alpha.-Ionone	127-41-3	5-10%
Benzyl acetate	140-11-4	1-5%
8.beta.H-Cedran-8-ol, acetate	77-54-3	1-5%
2,6-Octadien-1-ol, 3,7-dimethyl-, (E)- (Geraniol)	106-24-1	1-5%
1,6-Octadien-3-ol, 3,7-dimethyl- (Linalool)	78-70-6	1-5%
2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)- (Nerol)	106-25-2	1-5%
Benzoic acid	65-85-0	1-5%
D,L-Citronellol	106-22-9	1-5%
1,6-Octadiene, 7-methyl-3-methylene- (myrcene)	123-35-3	1-5%
Linalyl acetate	115-95-7	0.1-1%
.beta.-Caryophyllene	87-44-5	0.1-1%
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (.beta.-Pinene)	127-91-3	0.1-1%
.alpha.-Pinene	80-56-8	0.1-1%
Benzyl salicylate	118-58-1	0.1-1%
p-Mentha-1,4-diene	99-85-4	0.1-1%
Citronellal	106-23-0	0.1-1%
1,8-Cineole	470-82-6	0.1-1%
Terpinolene	586-62-9	0.1-1%
1,3,6-Octatriene, 3,7-dimethyl-, (Z)-	3338-55-4	0.1-1%
p-Mentha-1,3-diene	99-86-5	0.1-1%
Geranyl acetate	105-87-3	0.1-1%
2-methyl-3-(4-tert.-butylphenyl)-propanal (Lilial)	80-54-6	0.01-0.1%
Bulnesia sarmienti, ext., acetate	94333-88-7	0.01-0.1%
Fragrance ingredients present at non-hazardous concentrations	-	to 100%

4. FIRST AID MEASURES

Description of first aid measures

General advice Immediate medical attention is 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 Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur. Remove to fresh air.

Eye contact Get immediate medical advice/attention. Do not rub affected area. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

Ingestion ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical advice/attention. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

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. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid contact with skin, eyes, and clothing. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically. Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant 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 Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitizer. May cause sensitization by skin contact.

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 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. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Use personal protective equipment as required. See section 8 for more information.

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

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

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 Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

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 Use personal protection equipment. 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 according to package label instructions. In case of insufficient ventilation, wear suitable respiratory equipment. Remove contaminated clothing and shoes. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

General hygiene considerations Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place.

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

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. Eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Impervious gloves.

Skin and body protection Chemical resistant apron. Antistatic boots. Wear suitable protective clothing. Long sleeved clothing. Overalls.

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	Liquid
Appearance	No information available.
Color	No information available.
Odor	No information available.
Odor threshold	No information available.

Property	**Values**	**Remarks • Method**
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	> 35 °C	
Flash point	59 °C	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	

Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	0.9420 - 0.9620 (20°C)	
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
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

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.

Incompatible materials

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

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

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 Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye contact Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes. Specific test data for the substance or mixture is not available. (based on components).

Skin contact May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Specific test data for the substance or mixture is not available. (based on components).

Symptoms Burning. May cause blindness. Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1,501.10 mg/kg
ATEmix (dermal) 2,562.30 mg/kg
ATEmix (inhalation-dust/mist) 214.9347 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
d-Limonene	= 5200 mg/kg (Rat) = 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Citral	= 4960 mg/kg (Rat)	= 2250 mg/kg (Rabbit)	-
Coumarin	= 293 mg/kg (Rat) > 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Benzyl acetate	= 2490 mg/kg (Rat)	> 5000 mg/kg (Rabbit) > 5 g/kg (Rabbit)	-
8.beta.H-Cedran-8-ol, acetate	= 44750 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
2,6-Octadien-1-ol, 3,7-dimethyl-, (E)- (Geraniol)	= 3600 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
1,6-Octadien-3-ol, 3,7-dimethyl- (Linalool)	= 2790 mg/kg (Rat)	= 5610 mg/kg (Rat)	-
2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)- (Nerol)	= 4500 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Benzoic acid	= 1700 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 12.2 mg/L (Rat) 4 h
D,L-Citronellol	= 3450 mg/kg (Rat)	= 2650 mg/kg (Rabbit)	-
1,6-Octadiene, 7-methyl-3-methylene- (myrcene)	> 5 g/kg (Rat)	> 5 g/kg (Rabbit)	-
Linalyl acetate	= 14550 mg/kg (Rat) = 13934 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-	= 4700 mg/kg (Rat) > 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

(.beta.-Pinene)			
.alpha.-Pinene	= 3700 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Benzyl salicylate	= 2227 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
p-Mentha-1,4-diene	= 3650 mg/kg (Rat)	-	-
Citronellal	= 2420 mg/kg (Rat)	> 2.5 g/kg (Rabbit) > 2500 mg/kg (Rabbit)	-
1,8-Cineole	= 2480 mg/kg (Rat)	-	-
Terpinolene	= 4390 mg/kg (Rat)	-	-
p-Mentha-1,3-diene	= 1680 mg/kg (Rat)	-	-
Geranyl acetate	= 6330 mg/kg (Rat)	-	-
2-methyl-3-(4-tert.-butylphenyl)-propanal (Lilial)	= 1390 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 1802 mg/m³ (Rat) 4 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 Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

Respiratory or skin sensitization Classification based on data available for ingredients. May cause sensitization by skin contact.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	New Zealand	IARC
d-Limonene - 5989-27-5		Group 3
Coumarin - 91-64-5		Group 3
Benzyl acetate - 140-11-4		Group 3
1,6-Octadiene, 7-methyl-3-methylene- (myrcene) - 123-35-3		Group 2B

Reproductive toxicity Classification based on data available for ingredients. H361 - Suspected of damaging fertility or the unborn child.

STOT - single exposure No information available.

STOT - repeated exposure Classification based on data available for ingredients. May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Terrestrial ecotoxicity There is no data for this product.

Chemical name	Algae/aquatic plants	Fish	Crustacea
d-Limonene	-	LC50: 0.619 - 0.796mg/L (96h, Pimephales promelas) LC50: =35mg/L (96h, Oncorhynchus mykiss)	-
Citral	EC50: =16mg/L (72h, Desmodesmus subspicatus) EC50: =19mg/L (96h, Desmodesmus subspicatus)	LC50: 4.6 - 10mg/L (96h, Leuciscus idus)	EC50: =7mg/L (48h, Daphnia magna)
2,6-Octadien-1-ol, 3,7-dimethyl-, (E)- (Geraniol)	-	LC50: =22mg/L (96h, Danio rerio)	-
1,6-Octadien-3-ol, 3,7-dimethyl- (Linalool)	EC50: =88.3mg/L (96h, Desmodesmus subspicatus)	LC50: =27.8mg/L (96h, Oncorhynchus mykiss) LC50: 22 - 46mg/L (96h, Leuciscus idus)	EC50: =20mg/L (48h, Daphnia magna)
2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)- (Nerol)	-	LC50: =20.3mg/L (96h, Danio rerio)	-
Benzoic acid	EC50: =5mg/L (3h, Anabaena inaequalis)	LC50: =44.6mg/L (96h, Lepomis macrochirus) LC50: =180mg/L (96h, Gambusia affinis)	EC50: =860mg/L (48h, Daphnia magna) EC50: =300mg/L (24h, Daphnia magna)
Linalyl acetate	-	LC50: =11mg/L (96h, Cyprinus carpio)	-
.alpha.-Pinene	-	LC50: =0.28mg/L (96h, Pimephales promelas)	LC50: =41mg/L (48h, Daphnia magna)
Benzyl salicylate	-	LC50: =1.03mg/L (96h, Danio rerio)	-
1,8-Cineole	-	LC50: 95.4 - 109mg/L (96h, Pimephales promelas)	-
Terpinolene	-	LC50: =0.805mg/L (96h, Danio rerio)	-
2-methyl-3-(4-tert.-butylphenyl)-propanal (Lilial)	-	LC50: 2.2 - 4.6mg/L (96h, Brachydanio rerio)	EC50: =10.7mg/L (48h, Daphnia magna)

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

Bioaccumulation No information available.

Mobility

Mobility in soil No information available.

Component Information

Chemical name	Partition coefficient
Citral	2.76
Benzyl acetate	1.96
1,6-Octadien-3-ol, 3,7-dimethyl- (Linalool)	2.84 - 3.1
Benzoic acid	1.9
.alpha.-Pinene	4.1
2-methyl-3-(4-tert.-butylphenyl)-propanal (Lilial)	4.2

Other adverse effects

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products	Treat the substance using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance; or export the substance from New Zealand as waste. Class 2, 3 and 4 substances - 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 substances 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 substances, the person must ensure that the package is rendered incapable of containing any substance. It must be disposed of in a manner that is consistent with the requirements for disposal of the substance 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 substance (class 1, 2, 3, 4, or 5); or the contents of the residue in the package are below the threshold for the substance to be classified as hazardous (class 6, 8, or 9 substance).

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

UN number	1266
Proper shipping name	PERFUMERY PRODUCTS
Hazard class	3
Packing group	III
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	1266
UN proper shipping name	PERFUMERY PRODUCTS
Transport hazard class(es)	3
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	1266
UN proper shipping name	PERFUMERY PRODUCTS
Transport hazard class(es)	3
Packing group	III
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

National regulations See section 8 for national exposure control parameters

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Chemical name	New Zealand HSNO Chemical Classification
d-Limonene - 5989-27-5	3.1C,6.1E (All),6.1E (O),6.3B,6.4A,6.5B,9.1A (All),9.1A (C),9.1A (F),9.2B 3.1C,6.3B,6.4A,6.5B,9.1A (All),9.1A (C),9.1A (F),9.2B 6.5B,9.1B (All),9.1B (F),9.1B (C),9.2C
Citral - 5392-40-5	3.1D,6.1D (All),6.1D (O),6.1E (D),6.3A,6.5B,6.9B (All),6.9B (O),9.1D (All),9.1D (F),9.2D,9.3C 3.1D,6.3B,6.5B,6.9B (All),6.9B (O)
Coumarin - 91-64-5	6.1C (All),6.1C (O),6.3A,6.5B,6.7B,6.9B (All),6.9B (O),9.1D (All),9.1D (C),9.1D (F),9.2B,9.3B
Benzyl acetate - 140-11-4	3.1D,6.1D (All),6.1D (I),6.1D (O),6.3B,6.4A,9.1D (All),9.1D (F),9.3C
2,6-Octadien-1-ol, 3,7-dimethyl-, (E)- (Geraniol) - 106-24-1	6.1E (All),6.1E (O),6.3A,6.4A,9.1D (All),9.1D (F)
1,6-Octadien-3-ol, 3,7-dimethyl- (Linalool) - 78-70-6	3.1D,6.1E (All),6.1E (O),6.3A 6.3B
Benzoic acid - 65-85-0	6.1D (All),6.1D (O),6.4A,6.9B (All),6.9B (I),9.3C 6.9B (All),6.9B (I)
D,L-Citronellol - 106-22-9	3.1D,6.3A,6.5B,9.1B (All),9.1B (A),9.1B (C),9.1B (F) 6.3B,6.5B,9.1C (All),9.1C (A),9.1C (C),9.1C (F)
1,6-Octadiene, 7-methyl-3-methylene- (myrcene) - 123-35-3	3.1C,6.3A,6.4A,6.8B,9.1A (All),9.1A (A),9.1A (F),9.1B (C) 3.1C,6.3A,6.4A,6.8B,9.1A (All),9.1A (F),9.1A (A),9.1B (C) 3.1C,6.3A,6.4A,6.8B,9.1B (All),9.1B (A),9.1B (F),9.1C (C) 3.1C,6.3B,6.8B,9.1B (All),9.1B (F),9.1B (A),9.1C (C) 3.1C,6.3B,6.8B,9.1C (All),9.1C (F),9.1C (C),9.1C (A)
Linalyl acetate - 115-95-7	6.3A,6.4A,9.1B (All),9.1B (A),9.1B (C),9.1B (F)
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (.beta.-Pinene) - 127-91-3	3.1C,6.1E (All),6.1E (O),6.3A,6.4A,6.5B,9.1A (All),9.1A (A),9.1A (C),9.1A (F)
.alpha.-Pinene - 80-56-8	3.1C,6.1E (All),6.1E (O),6.3A,6.4A,9.1A (All),9.1A (F),9.1C (All),9.1C (C)
Benzyl salicylate - 118-58-1	6.1E (All),6.1E (O),6.5B
Citronellal - 106-23-0	6.1E (All),6.1E (O),6.3A,6.4A,6.5B,9.1B (All),9.1B (A),9.1B (C),9.1B (F)
1,8-Cineole - 470-82-6	3.1C,6.1E (All),6.1E (O),6.3A,6.4A 6.3B
Terpinolene - 586-62-9	3.1C,6.1E (All),6.1E (O),9.1A (All),9.1A (F),9.1B (C),9.1A (A)

International Inventories

NZIoC	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	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Contact supplier for inventory compliance status.

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 09/ 2020

Prepared By

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

Issuing Date: 30-Oct-2020

Reason(s) For Issue:
5 Yearly Revised Primary SDS
5 Yearly Revised Synonym SDS
Change in Hazardous Chemical Classification
Change to Transport Information
Change in UN Number

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.

End of Safety Data Sheet