SAFETY DATA SHEET



Revision date: 14-Jul-2020

Revision Number 1

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier

Product Name LEMONGRASS & PERSIAN LIME AIR 00728AB (FAIA00728AB)

Product Code(s) 000000026296

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).

Revision Number 1

| Flammable liquids | Category 4 |
|-----------------------------------|-------------|
| Aspiration hazard | Category 1 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization | Category 1 |
| Acute aquatic toxicity | Category 1 |
| Chronic aquatic toxicity | Category 2 |

SIGNAL WORD

Danger

Label elements

Environment Health hazard Exclamation mark



Hazard statements

H227 - Combustible liquid

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

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

H313 - May be harmful in contact with skin

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

Keep away from flames and hot surfaces. - No smoking

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

Wash hands thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace

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

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 Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with plenty of soap and water

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

Avoid breathing vapour or spray mist.

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 for extinction.

Collect spillage

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Store locked up

Revision Number 1

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Other hazards which do not result in classification
Poisons Schedule (SUSMP)
None allocated

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

| Chemical name | CAS No. | Weight-% |
|---|------------|----------|
| Citral | 5392-40-5 | 30-60 |
| d-Limonene | 5989-27-5 | 10-<30 |
| Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate | 32210-23-4 | 1-<10 |
| Alpha-hexylcinnamaldehyde | 101-86-0 | 1-<10 |
| 1,6-Octadien-3-ol, 3,7-dimethyl- (Linalool) | 78-70-6 | 1-<10 |
| Linalyl acetate | 115-95-7 | 1-<10 |
| Geranyl acetate | 105-87-3 | 1-<10 |
| Diethyl phthalate | 84-66-2 | 1-<10 |
| Fragrance ingredients present at non-hazardous concentrations | - | 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.

Emergency telephone number Poisons Information Center, Australia: 13 11 26

Poisons Information Center, New Zealand: 0800 764 766

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. 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. 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. Call a physician.

Self-protection of the first aider

Use personal protective equipment as required. See section 8 for more information. Avoid

contact with skin, eyes, and clothing.

Most important symptoms and effects, both acute and delayed

Symptoms May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically. Delayed pulmonary edema may occur.

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

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

In the event of fire, cool tanks with water spray. Fire residues and contaminated fire

Revision Number 1

extinguishing water must be disposed of in accordance with local regulations.

Hazardous combustion products Carbon oxides.

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 •3Z

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use personal protective equipment as required. See Personal precautions

section 8 for more information. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch or walk

through spilled material.

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

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 further leakage or spillage

if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

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

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. Pick up and transfer to properly labelled

containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapors or mists. Use according to

Revision Number 1

package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing.

General hygiene considerations

Do not eat, drink or smoke when using this product. 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. Avoid contact with skin, eyes, and clothing. Wear suitable gloves and eye/face protection.

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 sources of heat or ignition. Keep container closed when not in use.

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.

Incompatible materials Strong oxidizing agents.

Poisons Schedule (SUSMP) None allocated

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):

| Chemical name | Australia | ACGIH TLV |
|------------------------------|-------------|---|
| Citral 5392-40-5 | | TWA: 5 ppm inhalable fraction and vapor |
| Diethyl phthalate 84-66-2 | 5 mg/m³ TWA | TWA: 5 mg/m ³ |

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 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.

Revision Number 1

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.

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

Hand protection Wear suitable gloves. Impervious gloves.

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 Clear Liquid

AppearanceNo information available.ColorPale Yellow to YellowOdorCitrus Floral Musk SweetOdor thresholdNo information available.

Property Values Remarks • Method

pH No data available None known

Melting point / freezing point No data available

Boiling point / boiling range No data available

Flash point 72°C C (closed cup)
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 No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableVapor densityNo data availableRelative density0.898-0.918 @ 20°CWater solubilityNo data available

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone known

Autoignition temperature

No data available

No data available

No data available

No data available

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

Revision Number 1

Other information

10. STABILITY AND REACTIVITY

Reactivity

No information available. Reactivity

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Heat, flames and sparks. Direct sunlight. Conditions to avoid

Incompatible materials

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products Carbon oxides.

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 Irritating to skin. May cause sensitization by skin contact.

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

may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters

airways

Symptoms Irritation.

Numerical measures of toxicity - Product Information

No information available.

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

Revision Number 1

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|--|---|-----------------------|
| Citral | = 4960 mg/kg (Rat) | = 2250 mg/kg (Rabbit) | - |
| d-Limonene | = 5200 mg/kg (Rat) = 4400 mg/kg (Rat) | > 5 g/kg(Rabbit) | - |
| Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate | = 5 g/kg (Rat) | > 5000 mg/kg(Rabbit) | - |
| Alpha-hexylcinnamaldehyde | = 3100 mg/kg (Rat) | > 3000 mg/kg (Rabbit) | > 5 mg/L (Rat) 4 h |
| 1,6-Octadien-3-ol, 3,7-dimethyl- (Linalool) | = 2790 mg/kg (Rat) | = 2000 mg/kg (Rabbit) = 5610 mg/kg (Rat) | - |
| Linalyl acetate | = 14550 mg/kg(Rat) = 13934 mg/kg(Rat) | > 5000 mg/kg(Rabbit) | - |
| Geranyl acetate | = 6330 mg/kg (Rat) | - | - |
| 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 Irritating to skin. 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 Risk of serious damage to the lungs (by aspiration). May be fatal if swallowed and enters

airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity

Keep out of waterways.

Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to | Crustacea |
|---------------|----------------------|------|-------------|-----------|
| • | | | | |

Revision Number 1

| | | | microorganieme | |
|---|--|--|---------------------|--|
| Citral | EC50: =16mg/L (72h, Desmodesmus subspicatus) EC50: =19mg/L (96h, | LC50: 4.6 - 10mg/L (96h, Leuciscus idus) | microorganisms - | EC50: =7mg/L (48h, Daphnia magna) |
| | Desmodesmus subspicatus) | 1.050.0010.0500.0 | | |
| d-Limonene | - | LC50: 0.619 - 0.796mg/L (96h, Pimephales promelas) LC50: =35mg/L (96h, Oncorhynchus mykiss) | - | - |
| 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) |
| 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) |
| Linalyl acetate | - | LC50: =11mg/L (96h, Cyprinus carpio) | - | - |
| 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 subcapitata) | 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.

Bioaccumulative potential

Bioaccumulation No information available.

Component Information

| | Chemical name | Partition coefficient |
|---|---|-----------------------|
| | Citral | 2.76 |
| | 1,6-Octadien-3-ol, 3,7-dimethyl- (Linalool) | 2.84 - 3.1 |
| Γ | Diethyl phthalate | 2.35 |

Mobility

Mobility in soil No information available.

Other adverse effects

Endocrine Disruptor Information

| Candidate List Evaluated Substances | Chemical name | EU - Endocrine Disrupters | EU - Endocrine Disruptors - | Endocrine disrupting potential |
|-------------------------------------|---------------|---------------------------|-----------------------------|--------------------------------|
| 24.44.44.5 | | Candidate List | Evaluated Substances | |

00000026296 - LEMONGRASS & PERSIAN LIME AIR 00728AB (FAIA00728AB)

Revision date: 14-Jul-2020

Revision Number 1

| Diethyl phthalate | Group III Chemical | - | - |
|-------------------|--------------------|---|---|

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused Should not be released into the environment. Dispose of in accordance with local

products 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.

14. TRANSPORT INFORMATION

ADG

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
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 ||||

<u>IMDG</u>

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

Revision Number 1

(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).

See section 8 for national exposure control parameters

Poisons Schedule (SUSMP)

None allocated

Hazardous chemical

Threshold quantity (T)

National pollutant inventory

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

AICS

All the constituents of this material are listed on the Australian Inventory of Chemical

Substances.

Legend:

AICS - Australian Inventory of Chemical Substances

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: First Issue Primary SDS

Issuing Date: 14-Jul-2020

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

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

Ceiling Maximum limit value * Skin designation

C Carcinogen

Revision Number 1

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

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

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