



JAYSHREE AROMATICS PVT LTD

(100% EOU)

(Manufacturers of Aromatics & Fine Chemicals)

PLOT NO.: 4705/1/3, G.I.D.C., ANKLESHWAR- 393 002,
DIST. BHARUCH, (GUJARAT) INDIA

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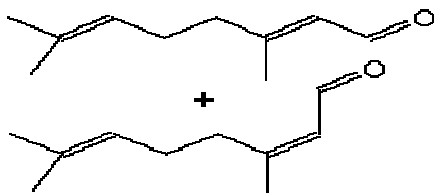
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MATERIAL SAFETY DATA SHEET.

PRODUCT: CITRAL PURE

REVISION DATE: 01/01/2011



1. IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

Identification of the substance.

Product name:- CITRAL PURE

Product Code: - C0011

Use of the substance.

This material used as a Fragrance & Flavor ingredient.

Registration Number 05-2117374827-28-0000 (PRE REGISTRATION NUMBER)

Company identification:

JAYSHREE AROMATICS PVT LTD

4705/1/3/4, G.I.D.C. Estate,

Ankleshwar-393 002, Dist. Bharuch, Gujarat India

Tel. : 91-2646-224211 Fax : 91-2646-252718

Email: info@jayshreeind.com

2. HAZARD IDENTIFICATION

OSHA Hazards: Skin sensitiser, Irritant, Reproductive hazard

GHS Label elements, including precautionary statements



**Pictogram
WARNING**

Hazard statement(s)

H303 + H313 May be harmful if swallowed or in contact with skin.

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
Precautionary statement(s)
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see supplemental first aid instructions on this label).
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents/container to an approved waste disposal plant.

HMIS Classification

Health hazard: 2

Chronic Health Hazard:

Flammability: 1

Physical hazards: 0

NFPA Rating

Health hazard: 2

Fire: 1

Reactivity Hazard: 0

Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Ingestion May be harmful if swallowed

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL INFORMATION: 3,7-dimethylocta-2,6-dienal

SYNONYMS 2,6-Octadienal, 3,7-dimethyl-, 3,7-Dimethyl-2,6-octadienal

Citral ,2,6-Dimethyloctadien-2,6-al-8 ,2,6-Octadienal, 3,7-dimethyl-, 3,7-Dimethyl-1,2,6-octadienal ,3,7-Dimethyl-2,6-octadienal ,3-01-00-03053 (Beilstein Handbook Reference) AI3-01011 ,BRN 1721871 ,CCRIS 1043 ,Caswell No. 221B ,Citral ,Citral (natural) EPA Pesticide Chemical Code 040510 ,HSDB 993 ,Lemsyn GB ,NCI-C56348 NSC 6170 ,UNII-T7EU009VPP ,citraalia, hesperitraal, Lemarome N, lemsyn, Citral PQ Extra, cis &trans-3,7-dimethyl-2,6-octadienal, Geranial, Neral, Citral, alpha Geranaldehyde, beta-Geranial, trans-3,7-Dimethyl-2,6-octadienal trans-Citral

CAS: 5392-40-5

EINECS: 226-394-6

FEMA: 2303

MOLECULAR FORMULA: C₁₀H₁₆O

MOLECULAR WEIGHT: 152.23

CoE: - 109

HARMONIZES NO: - 2912 19 9000

CEE: 605-019-00-3

4. FIRST AID MEASURES.

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution. Consult a physician

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for firefighting if necessary..

6. ACCIDENTAL RELEASE MEASURES.

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for Disposal.

7. HANDLING AND STORAGE.

Handling:

Apply according to good manufacturing and industrial hygiene practices.

Respect good personal hygiene practices. Do not drink, eat or smoke during manipulation.

Respect the precaution rules of the industrial risks.

Keep away from sources of ignition.

The incorporation to the finished product must be done at the lowest possible temperature.

Ensure good ventilation of work station

Storage:

Store according to the local and/or national storage rules, respecting the precautions printed on the labels. Store in hermetic recipients, better full, in cool, dry and ventilated areas away from heat sources and protected from light. Keep air contact to a minimum. Keep away from sources of ignition and flames

Fulfil the chemical agent storage regulation.

Do not store this product near any kind of food , or drinkable water.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION.



Exposure limit values Contains no substances with occupational exposure limit values

Exposure limit biological :

Exposure controls :

Occupational exposure controls

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards

Hand protection: Use chemical resistant gloves

Eye protection: Use safety glasses & Face shield

Skin protection: Avoid skin contact & Choose body protection according to the amount and concentration of the dangerous substance at the work place

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES.

General information:

Appearance: LIQUID

Odour: Lemon, Citrus, Fruity, Green

Colour: PALE YELLOW

Important health, safety and environment information:

pH: N/A

Boiling point: 229°C

Melting Point: <-10

Flash point: >95°C

Relative vapor density 5.26

Vapor pressure: 0.07 mmHg) at 25 °C

Relative density: 0.885 to 0.894

Solubility: SOLUBLE IN ORGANIC SOLVENTS

Water solubility: Not Soluble

Partion coeff. (N-octanol/water): 3.17

Viscosity:

Saturation Concentration

Vaporization number

Critical temperature

Lower explosion limit 4.3 %(V)

Upper explosion limit 9.9 %(V)

Critical pressure

Surface tension

Refractive index 1.4850~1.4930 (20 C)

Dipole moment

Dielectric constant

Heat of vaporization 46.6 kJ/mol

Heat of combustion

10. STABILITY AND REACTIVITY.

Stable under normal recommended storage conditions

Possibility of hazardous reactions

No Data Available

Conditions to avoid: No Data Available

Materials to avoid: Oxidizing agents, Strong acids and strong bases, Reducing agents

Hazardous decomposition products: Under normal conditions of storage are not known dangerous substances in decomposition.

Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION.

Acute toxicity

LD50 Oral - Rat - 5000 mg/kg

LD50 Dermal - rabbit - > 2250 mg/kg

Skin corrosion/irritation

Skin - rabbit - Skin irritation - 24 h

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

May cause allergic skin reaction.

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, Possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA..

Reproductive toxicity

no data available

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals

Specific target organ toxicity - single exposure (GHS)

No data available

Specific target organ toxicity - repeated exposure (GHS)

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation. Repeated exposure may Cause skin dryness or cracking.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Additional Information

RTECS: RG5075000

12. ECOLOGICAL INFORMATION.

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS.

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste, disposal service to dispose of this material, Respect the local or national norms about elimination of residues and packages Appropriate elimination method : whenever possible, it is better to recycle than depositing or incinerating.

Disposal Methods Absorb in Vermiculite or dry sand & be sure containers are empty before discarding

Contaminated packaging

Dispose of as unused product

14. TRANSPORT INFORMATION.

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION.

OSHA Hazards

Skin sensitiser, Irritant, Reproductive hazard

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold

(De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Citral

CAS-No.

5392-40-5

Revision Date

New Jersey Right To Know Components

Citral

CAS-No.

5392-40-5

Revision Date

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other Reproductive harm.

HAZARD SYMBOLS:**Labelling****Irritant****R PHRASES:**

R- 38 Irritating to skin

R -43 May cause sensitization by skin contact

S PHRASES:

S- 2 Keep out of the reach of children

S-24/25 Avoid contact with skin and eyes

S-37 Wear suitable gloves

16. OTHER INFORMATION.

The information contained in the present MSDS, according to regulation 1907/2006, is based on our knowledge and experience at the moment of publishing it. This document tries to give information about the correct use, storage and transport.

Bearing in mind that the use of this information and the conditions of use of the product are not under control

JAYSHREE AROMATICS PVT LTD. provides the information contained herein in a good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose and take the responsibility for observing existing laws and regulations.