

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

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MATERIAL SAFETY DATA SHEET **PRODUCT – DAMASCENONE TOTAL**

1. Chemical Product and Company Identification

Product Identifiers:

Product Name : DAMASCENONE TOTAL

Product Code :

MSDS No :

Synonyms : Beta damascenone, Fermentone, Dascenone, Damascenone total, Rose

CAS No. : 23696-85-7

Molecular Weight : 190.28

Chemical Formula : C₁₃H₁₀O

EC number : 245-833-2

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Industrial purpose, Manufacture of substances.

Details of the supplier of the safety data sheet:

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2. Hazards Identification

2.1 Classification of the substance or mixture

No data available.

2.2 Label elements

Pictogram: N/A

Signal word: N/A

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher. Classification of the substance or mixture:

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3. Composition and Information on Ingredients

Product Name : Damascone Total

Synonyms : Beta damascenone, Fermentone, Dascenone, Damascenone total, Rose

CAS No. : 23696-85-7

Molecular Weight : 190.28

Chemical Formula : C₁₃H₁₀O

EC number : 245-833-2

4. First Aid Measures

Description of first aid measures

General advice : Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

If inhaled : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

In case of skin contact : Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes

In case of eye contact : Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.

If swallowed : Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

Most important symptoms/effects, acute and delayed: Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash

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5. Fire and Explosion Data

Extinguishing media

Suitable extinguishing media: Use water spray, fog, alcohol-resistant foam, dry chemical, or carbon dioxide

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire

Special hazards arise from the substance or mixture: Fire may produce irritating, corrosive and/or toxic gases.

Advice for firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

Firefighting equipment/instructions:

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control

Further information: Use water spray to cool unopened containers.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Environmental precautions

Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of

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spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods and materials for containment and cleaning up

Collect and dispose of spillage as indicated in section 13 of the SDS.

Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.).

7. Handling and Storage

Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities.

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

Training Hints:

Make sure that workers are aware of the danger and risk according to this safety data sheet.

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8. Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits

This substance has no PEL, TLV, or other recommended exposure limit.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure controls.

Appropriate engineering controls

Use explosion-proof ventilation equipment to stay below exposure limits

Personal protective equipment

Eye/face protection

Face shield and safety glasses is recommended.

Skin protection

Handle with chemical resistant gloves. Use of an impervious apron is recommended. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Wear appropriate thermal protective clothing, when necessary.

Respiratory protection

Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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9. Physical and Chemical Properties

- a) Information on basic physical and chemical properties
- b) Appearance : Pale yellow colour liquid
- c) Physical state :
- d) Form :
- e) Odor : Natural, Sweet, Fruity, Rosy, Plum, Grape, Raspberry
- f) pH : No data available.
- g) Melting point/freezing point : No data available.
- h) Boiling point : 271 °C
- i) Flash point : >100 °C
- j) Upper/lower flammability or explosive limits
- k) Flammability limit – lower : No data available. (%)
- l) Flammability limit – upper : No data available. (%)
- m) Explosive limit - lower (%) : No data available.
- n) Explosive limit - upper (%) : No data available.
- o) Vapor pressure : 0.00700 mmHg @ 25.00 °C
- p) Solubility (water) : Insoluble
- q) Auto-ignition temperature : 525.2 - 527 °F (274 - 275 °C)
- r) Decomposition temperature : No data available
- s) Viscosity : No data available
- t) Molecular formula : $C_{13}H_{10}O$
- u) Molecular weight : 190.28
- v) Specific gravity : 0.945 -0.953 at 25°C
- w) Refractive Index : 1.510-1.514 at 25°C

10. Stability and Reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. **Chemical stability**

Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid.

Avoid temperatures exceeding the flash point

Incompatible materials

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Strong oxidizing agents

Hazardous decomposition products

No hazardous decomposition products if stored and handled as indicated

11. Toxicological Information

Acute Toxicity:

Acute oral toxicity: LD50 - rat >2 000 mg/kg.

Acute inhalation toxicity: No data available

Acute dermal toxicity: LD50 rabbit > 4 ml/kg

Skin corrosion/irritation: Causes skin irritation. Irritation (dermal)(FHSA): non irritant @ 50% Irritation (dermal)(HRIPT): non irritant @ 3%

Respiratory or skin sensitisation:

Respiratory Sensitisation:

Due to partial or complete lack of data the classification is not possible.

Skin Sensitisation:

May cause an allergic skin reaction. Sensitization (OECD 406, Buehler): non sensitizing @ 10% Sensitization (HRIPT): non sensitizing @ 3% Sensitization (OECD 406, GPMT): 20% sensitizing @ 3%, 10% sensitizing @ 0.5% Photosensitization (HRIPT): non photosensitizing @ 3%

12. Ecological information

Acute aquatic toxicity: Toxic to aquatic life with long lasting effects.

Persistence and degradability: Ready biodegradability (OECD 301B mod): IC = 50%.

Bio concentration Factor: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment: Not determined.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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13. Disposal considerations

Disposal Instructions: Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: Not established.

Waste from residues/unused products: Empty containers or liners may retain some product residues. This material and its products container must be disposed of in a safe manner (see Disposal instructions).

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

UN number

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

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Packaging group

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Environmental hazards

ADR/RID: No

IMDG: No

IATA: No

Special precautions for user

No data available

15.Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

For this product a chemical safety assessment was not carried out

16.Other information

Scimplify cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage, and disposal of the product, and to assume liability for loss, injury, damage, or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is accurate to the best of Scimplify knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures

should be provided to all handlers and users, considering the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.