

# MATERIAL SAFETY DATA SHEET

## BETA DAMASCENONE NATURAL

### 1. Identification

- Chemical name 1-(2,6,6-Trimethyl-1,3-cyclohexadienyl)-2-buten-1-one
- Synonyms Floriffone;4-(2,6,6-Trimethylcyclohexa-1,3-dienyl)but-2-en-4-one
- Molecular Formula C<sub>13</sub>H<sub>18</sub>O
- Molecular Weight 190.28
- CAS No. 23696-85-7
- FEMA No. 3420
- EINECS No. 245-833-2
- FDA 172.510
- CoE 11197

### 2. Hazards identification

- **Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008**  
Skin sensitisation (Category 1) H317  
Chronic aquatic toxicity (Category 2) H411

- **Label elements**  
**Labelling according Regulation (EC) No 1272/2008**

**Pictogram****Signal word** Warning**Hazard statement(s)**H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.**Precautionary statement(s)**P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/  
face protection.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/  
attention.  
P391 Collect spillage.  
P501 Dispose of contents/ container to an approved waste  
disposal plant.**Supplemental Hazard** none

- **Other hazards** none

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### **3. Composition/information on ingredients**

- $\beta$ -Damascenone ≥98%
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### **4. First aid measures**

- **Eye contact:**  
Rinse immediately with tap water for 10 minutes open eyelids forcibly;  
consult a physician if irritation persists
  - **Skin contact:**  
Remove immediately contaminated clothes, wash affected skin with water and soap - do not use any solvents;  
consult a physician if skin irritation persists
  - **Inhalation:**  
Remove from exposure and move to fresh air immediately.  
  
Get medical aid.
  - **Ingestion:**  
If conscious and alert, rinse mouth and-drink 2-4 cupfuls of milk or water.  
  
Get medical aid. induce vomiting.
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### **5. Fire-fighting measures**

- **General Information:**  
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
  - **Extinguishing Media:**  
Use water spray, dry chemical, carbon dioxide, or chemical foam.
  - **Special method of fire-fighting**  
Cool endangered containers with water spray; Containers may explode when heated.
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### **6. Accidental release measures**

- **General Information:**  
Use proper personal protective equipment as indicated in Section 8.
  - **Spills/Leaks:**  
Vacuum or sweep up material and place into a suitable disposal container.
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### **7. Handling and storage**

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- **Handling:**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

- **Storage:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 °C and protected under nitrogen

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## 8. Exposure controls and personal protection

- Technical measures                      local exhaust ventilation necessary  
take precautionary measures against electrostatic charging  
processing in closed systems, if possible superposed by inert gas  
(e.g. nitrogen).
  - Engineering Controls                      Facilities storing or utilizing this material should be equipped with  
an eyewash facility and a safety shower..
  - Respiratory protection                      In case of olfactory nuisance: respirator with independent air  
supply or mask with activated charcoal filter
  - Eyes    Safety glasses
  - Hand    Protective gloves
  - Skin    Wear appropriate protective clothing to prevent skin exposure
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## 9. Physical and chemical properties:

- Form    Liquid
- Color    Pale yellow to yellow liquid
- Odor    Floral, fruity odour
- PH value at 10g/l H<sub>2</sub>O                      N/A
- Boiling point                                    N/A
- Flash point                                      > 110 °C - closed cup
- Melting point                                    N/A
- Explosive properties                            N/A
- Lower explosion limit                        N/A
- Upper explosion limit                        N/A
- Ignition temperature                        N/A
- Oxidizing properties                        N/A
- Vapor pressure                                N/A
- Specific gravity @25°C                      0.943-0.952
- Solubility in water                            Insoluble
- Organic solvents                               1 ml in 10 ml 95% alcohol

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## 10. Stability and reactivity

- Chemical Stability Stable under recommended storage conditions.
- Conditions to Avoid No information available.
- Substances to be avoided Strong oxidizing agents
- Hazardous decomposition Carbon oxides
- Hazardous Will not occur.

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## 11. Toxicological information

- Acute toxicity LD50 Oral - Rat - > 2,000 mg/kg  
LD50 Dermal - Rabbit - > 4,000 mg/kg
- Sensitization No information available.
- Mutagenicity No information available.
- Other Studies See actual entry in RTECS for complete information.

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## 12. Ecological information

- No information available.

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## 13. Disposal considerations

- Waste from residues Observe local/national regulations regarding waste disposal  
Incinerate in qualified installation with flue gas scrubbing

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## 14. Transport information

- **UN number**  
ADR/RID:3082                      IMDG:3082                      IATA:3082
- **Shipping Name**  
ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(1-(2,6,6-Trimethyl-1,3cyclohexadien-1-yl)-2-buten-1-one)  
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(1-(2,6,6-Trimethyl-1,3cyclohexadien-1-yl)-2-buten-1-one)  
IATA: Environmentally hazardous substance, liquid, n.o.s.  
(1-(2,6,6-Trimethyl-1,3-cyclohexadien-1yl)-2-buten-1-one)
- **Hazard Class**  
ADR/RID:9                      IMDG:9                      IATA:9
- **Packing Group**  
ADR/RID:III                      IMDG:III                      IATA:III

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### 15. Regulatory information

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

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
no data available
- **Chemical Safety Assessment**  
no data available

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### 16. Other information

- Document Number B-N34200-07
- Creation Date Oct. 19, 18
- Revision 7.0
- Disclaimer The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.