

## SAFETY DATA SHEET

### JASMONEIGE

#### 1. Identification

##### Product identifier

<b>Product name</b>	JASMONEIGE
<b>Chemical name</b>	Cyclopentaneacetic acid, 3-oxo-2-(2-pentenyl)-, methyl ester
<b>Synonyms; trade names</b>	Cyclopentaneacetic acid, 3-oxo-2-(2-penten-1-yl)-, methyl ester, Methyljasmonate
<b>CAS number</b>	39924-52-2

##### Recommended use of the chemical and restrictions on use

**Application** Flavor and fragrance ingredient.

##### Details of the supplier of the safety data sheet

**Supplier** ZEON CORPORATION  
1-6-2, Marunouchi, Chiyoda-ku,  
Tokyo 100-8246  
Japan  
Tel: +81-3-3216-0542

**Contact Person** N.Otsuki@zeon.co.jp

**Manufacturer** ZEON CORPORATION  
1-6-2, Marunouchi, Chiyoda-ku,  
Tokyo 100-8246  
Japan  
Tel: +81-3-3216-0542

##### Emergency telephone number

**Emergency telephone** +81-3-3216-0542 +81-86-475-0047 (9:00 - 17:00 Japan time, weekdays only)  
+49-89-19240 (24H) (English / German)  
+49-211-5267 0 (Mon.-Thu. 8:00-16:30, Fri. 8:00-15:30)

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**OSHA Regulatory Status** This Product is Not Hazardous under the OSHA Hazard Communication Standard.

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Not Classified

##### Label elements

**Hazard statements** NC Not Classified

##### Other hazards

**Hazards not otherwise classified (HNOC)** Not applicable.

#### 3. Composition/information on ingredients

##### Substances

<b>Product name</b>	JASMONEIGE
<b>Chemical name</b>	Cyclopentaneacetic acid, 3-oxo-2-(2-pentenyl)-, methyl ester

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<b>CAS number</b>	39924-52-2
<b>Chemical formula</b>	C13H20O3
<b>Composition comments</b>	≥ 97.0%

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Call a poison center/ doctor if you feel unwell.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Call a poison center/ doctor if you feel unwell.
<b>Skin Contact</b>	Wash skin thoroughly with soap and water. Remove contaminated clothing. Call a poison center/ doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. If eye irritation persists: Get medical advice/ attention.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

#### Most important symptoms and effects, both acute and delayed

**General information** No information available.

#### Indication of immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations. Treat symptomatically.

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media** Larger fires: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Small fires: Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Dry sand.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

#### Special hazards arising from the substance or mixture

**Specific hazards** Thermal decomposition or combustion products may include the following substances: Irritating gases or vapors. Corrosive gases or vapors. Toxic gases or vapors. Containers can burst violently or explode when heated, due to excessive pressure build-up. Do not allow water to enter the container.

**Hazardous combustion products** Irritating gases or vapors. Corrosive gases or vapors. Toxic gases or vapors.

#### Advice for firefighters

**Protective actions during firefighting** Move containers from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Fight fire from safe distance or protected location. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Use fire-extinguishing media suitable for the surrounding fire. Do not allow water to enter the container.

**Special protective equipment for firefighters** Wear self-contained breathing apparatus. Wear fire/ flame resistant/ retardant clothing. Wear chemical protective suit.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

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<b>Personal precautions</b>	Evacuate area. Keep unnecessary and unprotected personnel away from the spillage. Keep upwind. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapors and contact with skin and eyes. Vapors may accumulate on the floor and in low-lying areas. Ventilate closed spaces before entering them.
<b><u>Environmental precautions</u></b>	
<b>Environmental precautions</b>	Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid release to the environment.
<b><u>Methods and material for containment and cleaning up</u></b>	
<b>Methods for cleaning up</b>	Ground container and transfer equipment to eliminate sparks from static electricity. Stop leak if safe to do so. Ground/bond container and receiving equipment. Small Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Vacuum or sweep up material and place in a disposal container. Use only non-sparking tools. Use explosion-proof electrical equipment. Cover powdered spills with plastic sheet or tarpaulin to minimize spreading and protect from water. Do not close container tightly, due to the risk of excessive pressure build-up. Spillage into watercourses: Remove from water surface by skimming or with suitable absorbents. Do not use dispersants. For waste disposal, see Section 13.
<b>Precautionary measures to prevent the occurrence of secondary hazards</b>	Eliminate all sources of ignition. Prevent leakage entering sewers, basements and work pits. Do not allow material to enter confined spaces, due to the risk of explosion. Do not allow water to enter the container.
<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see section 13.

### 7. Handling and storage

#### **Precautions for safe handling**

<b>Usage precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only in well-ventilated areas. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Ground container and transfer equipment to eliminate sparks from static electricity. Take precautionary measures against static discharges. Avoid swallowing.
<b>Advice on general occupational hygiene</b>	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.

#### **Conditions for safe storage, including any incompatibilities**

<b>Storage precautions</b>	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Storage tanks and other containers must be grounded. Keep at temperature not exceeding 5°C/41°F. Keep away from heat, sparks and open flame. Store away from the following materials: Oxidizing agents. Suitable container materials: UN approved containers.
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#### **Specific end uses(s)**

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.
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### 8. Exposure controls/Personal protection

<b>Ingredient comments</b>	No exposure limits known for ingredient(s).
<b><u>Exposure controls</u></b>	
<b>Appropriate engineering controls</b>	Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Take precautionary measures against static discharges.

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<b>Eye/face protection</b>	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. The following protection should be worn: Chemical splash goggles.
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
<b>Other skin and body protection</b>	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
<b>Hygiene measures</b>	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
<b>Environmental exposure controls</b>	Not regarded as dangerous for the environment.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Color</b>	Colorless to pale yellow.
<b>Odor</b>	Jasmine flower.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	Not available.
<b>Flash point</b>	156°C Cleveland open cup.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Other flammability</b>	Not available.
<b>Vapor density</b>	7.73
<b>Relative density</b>	1.028 @ 20°C (water = 1)
<b>Solubility(ies)</b>	Insoluble in water. Soluble in the following materials: Alcohols. Ketones. Hydrocarbons.

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<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.
<b>Other information</b>	Not available.
<b>Molecular weight</b>	224.30

**10. Stability and reactivity**

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Possibility of hazardous reactions</b>	There are no known reactivity hazards associated with this product.
<b>Conditions to avoid</b>	Keep away from heat, sparks and open flame. Avoid exposure to high temperatures or direct sunlight.
<b>Materials to avoid</b>	Strong oxidizing agents. Strong acids. Strong alkalis.
<b>Hazardous decomposition products</b>	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapors. Corrosive gases or vapors. Irritating gases or vapors.

**11. Toxicological information****Information on toxicological effects**

**Routes of exposure** Skin , Eyes , Ingestion , Inhalation , Health effects: See section 4.

**Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral, Rat

**Acute toxicity - dermal**

**Notes (dermal LD<sub>50</sub>)** Not available.

**Acute toxicity - inhalation**

**Notes (inhalation LC<sub>50</sub>)** Not available.

**Skin corrosion/irritation**

**Skin corrosion/irritation** Not available.

**Animal data** Mildly irritating. Primary dermal irritation index: 1.5 Rabbit

**Serious eye damage/irritation**

**Serious eye damage/irritation** Not available.

**Respiratory sensitization**

**Respiratory sensitization** Not available.

**Skin sensitization**

**Skin sensitization** Not available.

**JASMONEIGE****Germ cell mutagenicity****Genotoxicity - in vitro** Ames test: Negative.**Genotoxicity - in vivo** Not available.**Carcinogenicity****Carcinogenicity** Not available. Not established : IARC, NTP, EU, OSHA, ACGIH**Reproductive toxicity****Reproductive toxicity - fertility** Not available.**Reproductive toxicity - development** Not available.**Specific target organ toxicity - single exposure****STOT - single exposure** Not available.**Specific target organ toxicity - repeated exposure****STOT - repeated exposure** Not available.**Aspiration hazard****Aspiration hazard** Not available.**12. Ecological information****Toxicity** No data available.**Persistence and degradability****Persistence and degradability** No data available.**Bioaccumulative potential****Bio-Accumulative Potential** No data available on bioaccumulation.**Partition coefficient** Not available.**Mobility in soil****Mobility** This product may be mobile to the atmosphere, water systems and soil.**Other adverse effects****Other adverse effects** Not known.**13. Disposal considerations****Waste treatment methods****Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.**14. Transport information****General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).**UN Number****UN No. (International)** Not applicable.**UN proper shipping name****Proper shipping name (International)** Not applicable.

**JASMONEIGE****Transport hazard class(es)**

**Transport Labels (International)** No transport warning sign required.

**Packing group**

**Packing group (International)** Not applicable.

**Environmental hazards**

**Environmentally Hazardous Substance**  
No.

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**15. Regulatory information**

**Regulatory Status** This Product is Not Hazardous under the OSHA Hazard Communication Standard.

**Regulatory References** 29 CFR 1910. 1200(g) Federal Regulations (OSHA Standard).

**US Federal Regulations**

**SARA (311/312) Hazard Categories**  
None

**16. Other information**

**Training advice** Ensure operatives are trained to minimize exposure. Only trained personnel should use this material.

**Revision comments** Revised section(s): 1 , 7 , 8 , 9 , 10 , 15 , 16

**Revision date** 9/9/2019

**Revision** 4

**NFPA - health hazard** No health hazards specifically noted for fire situations. (0)

**NFPA - flammability hazard** Burns only if pre-heated. (1)

**NFPA - instability hazard** Normally stable. (0)

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.