

# Safety Data Sheet

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	<b>β-Caryophyllene Oxide, Natural</b>
Product Number	<b>0408500</b>
CAS-No.	<b>1139-30-6</b>

### 1.2 Product Recommended Use

**Flavorings and fragrances**

### 1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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Telephone	845-496-6065
Fax	845-496-6248

### 1.4 Emergency Telephone Number

1-800-535-5053  
International - 1-352-323-3500 collect

## Section 2: HAZARD(s) IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement  
Hazard Statement(s)

Warning

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary Statement(s)

P264

Wash skin thoroughly after handling.

P280

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

P302+P352

IF ON SKIN: Wash with plenty of soap and water.

P305+P351+  
P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If skin irritation occurs: Get medical advice/ attention.

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P332+P313  
P337+P313  
P362

If eye irritation persists: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.

2.3 HNOC (Hazards not otherwise  
classified or not covered by GHS)

None

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonym  $\beta$ -Caryophyllene epoxide  
Formula  $C_{15}H_{24}O$   
Molecular Weight 220.35 g/mol  
CAS-No 1139-30-6  
EC-No. 214-519-7

#### Hazardous Components

Component	Classification	Concentration
[1R-(1R,4R,6R,10S)]-4,12,12-Trimethyl-9-methylene-5-oxatricyclo[8.2.0.0 <sup>4,6</sup> ]dodecane	Skin Irrit. 2; Eye Irrit. 2A; H315, H319	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## Section 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

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

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

Contact with skin: Rinse skin with cool water then wash with mild soap and warm water.

Contact with eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water.

Clothing contamination: Remove contaminated clothing and wash before reuse.

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

See section 2.2 and or section 11

### 4.3 Indication of any immediate medical attention and special treatment needed.

No data available

## Section 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing Media**  
Suitable Extinguishing Media For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
- 5.2 Special hazards arising from the substance or mixture** Carbon oxides
- 5.3 Advice for fire fighters** Wear self contained breathing apparatus for firefighting if necessary.
- 5.4 Further information** Use water spray to cool unopened containers.

## Section 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
- 6.2 Environmental precautions** Discharge into the environment must be avoided. Do not allow to enter drains or sewage system.
- 6.3 Methods and materials for containment and clean up** Contain spillage, then pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal
- 6.4 Reference to other sections** For disposal see section 13.

## Section 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.  
Provide appropriate exhaust ventilation at places where dust is formed.  
For precautions see section 2.2.
- 7.2 Conditions for Safe storage** Keep container tightly closed in a dry and well-ventilated place.  
Storage class (TRGS 510): Non Combustible Solids
- 7.3 Specific End use(s)** Flavorings and Fragrances

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## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

### 8.2 Exposure Controls

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

#### Personal protective equipment

**These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situations of anticipated use by our customers. They should not be construed as offering an approval or any specific use scenario.**

Eye/face protection	Safety glasses for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	Handle with gloves. 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	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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 such as NIOSH (US) or CEN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a	Appearance	Form: crystalline Color: colorless
b	Odor	Woody, sweet fruity
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	Melting point/range: 61-63°C (142-145°F)
f	Initial boiling point/range	No data available
g	Flash Point	110°C (230 °F) closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	No data available
l	Vapor density	No data available
m	Relative density @25°C	No data available
n	Solubility	Insoluble in water; soluble in alcohol
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	No data available
q	Decomposition Temp,	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Oxidizing properties	No data available

**9.2 Other Safety Information** No data available

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## Section 10: STABILITY AND REACTIVITY

10.1	Reactivity	No data available
10.2	Chemical Stability	Stable under recommended storage conditions
10.3	Possibility of Hazardous reactions	No data available
10.4	Conditions to avoid	No data available
10.5	Incompatible materials	No data available
10.6	Hazardous decomposition products	No data available
10.7	Further Information	No data available

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

LD50-Oral- Rat	> 5,000mg/kg
Inhalation	No data available
LD50- Dermal-Rabbit	>2,000mg/kg

Skin corrosion/irritation	Rabbit – 24Hrs
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	No data available

#### Carcinogenicity

IARC No component of this product, present 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, present 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, present 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
Teratogenicity	No data available
Specific target organ toxicity-single exposure (GHS)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available

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Signs and Symptoms of Exposure

No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Synergistic effects

No data available

RTECS:

RP5530000

## Section 12: ECOLOGICAL INFORMATION

12.1	Toxicity	No data available
12.2	Persistence and degradability	No data available
12.3	Bioaccumulative potential	No data available
12.4	Mobility in soil	No data available
12.5	Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
12.6	Other adverse effects	No data available

## Section 13: DISPOSAL CONSIDERATIONS

13.1	Disposal methods	
	Product:	According to local regulations
	Packaging	According to local regulations

## Section 14: TRANSPORT INFORMATION

DOT (US)	Not a dangerous goods
IMDG	Not a dangerous goods
IATA	Not a dangerous goods

## Section 15: REGULATORY INFORMATION

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313 Components	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
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act
Pennsylvania Right to Know components	[1R-(1R,4R,6R,10S)]-4,12,12-Trimethyl-9-methylene-5-oxatricyclo[8.2.0.0.4,6]dodecane CAS# 1139-30-6      Rev. Date:
New Jersey Right to Know components	[1R-(1R,4R,6R,10S)]-4,12,12-Trimethyl-9-methylene-5-oxatricyclo[8.2.0.0.4,6]dodecane CAS# 1139-30-6      Rev. Date:
California Prop. 65 components	This product does not contain any chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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## Section 16: OTHER INFORMATION

### HMIS Rating

Health hazard 2  
Chronic Health Hazard\*  
Flammability 1  
Physical Hazard 0

### Further Information

Aurochemicals provides the information contained herein in 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. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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