

HEALTH 2 FLAMMABILITY 0 REACTIVITY 0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name Beta Caryophyllene, Natural

Product Number **0225200** CAS-No. **87-44-5**

1.2 Product Recommended Use Flavorings

1.3 Preparation Information

Company Aurochemicals

7 Nicoll Street

Washingtonville, NY 10992 - USA

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 substance or mixture

GHS Classification (OSHA HCS)

Not a hazardous substance or mixture

2.2 GHS Label Elements, Including precautionary statements

2.3 HNOC (Hazards not otherwise

classified or not covered by GHS

None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Chemical characterization Natural Product
Synonyms (-)-trans-Caryophyllene

Trans-(1R,9S)-8-Methylene-4,11,11-trimethylbicyclo[7.2.9]undec-4-ene

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 $\begin{array}{ccc} Formula & C_{15}H_{24} \\ Molecular Weight & 136.19 \ g/mol \\ CAS-No & 87-44-5 \\ EC-No. & 201-746-1 \end{array}$

Hazardous Components

Component Classification Concentration

No ingredients are hazardous according to OHSA criteria

No components need to be disclosed according to the applicable regulations



Section 4: FIRST AID MEASURES

4.1 **Description of first aid measures**

> Inhalation Provide fresh air, keep at rest and at a comfortable position to breathe.

Contact with skin: Remove contaminated clothing. 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 as a precaution.

DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Ingestion

Rinse mouth with water.

Clothing contamination: Remove contaminated clothing and wash before reuse.

Most important symptoms and effects

both acute and delayed

See section 2.2 and or section 11

Indication of any immediate medical

attention and special treatment needed.

No data available

FIREFIGHTING MEASURES Section 5:

5.1 **Extinguishing Media**

> Suitable Extinguishing Media Use water spray, alcohol resistant foam, dry chemicals or carbon dioxide

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.

Further information No data available

ACCIDENTIAL RELEASE MEASURES Section 6:

6.1 Personal precautions, protective

equipment and emergency procedures

Avoid breathing vapors, mist or gas

6.2 **Environment precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage

6.3 Methods and materials for containment

and clean up

Take up with liquid absorbent material. Place in appropriate container and keep closed

until disposal.

6.4 Ventilate area After clean up, wash spill area and ventilate the area well.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid inhalation of vapor or mist. Use explosion proof equipment. Keep away from

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sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic

charge.

7.2 Conditions for Safe storage 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.

7.3 Specific End use(s) Flavors

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control

parameters

Contains no substance with workplace control parameters

8.2 Exposure Controls

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices

Personal protective equipment These recommendations are advisory only and must be evaluated by an industrial

hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any

specific use scenario

Eye/face protection Wear appropriate tightly fitting safety goggles. Face shield (8-inch minimum) NIOSH

tested and approved.

Skin protection Wear chemically resistant gloves of Nitrile rubber

Body protection
Complete suite protecting against chemicals, made of flame retardant antistatic material

should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing

to chemicals should be ascertained with the respective supplier.

Respiratory protection Respiratory protection not required. For nuisance exposures use type OV/AG respirator

cartridges tested and approved by NIOSH.

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

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a Appearance Liquid, Colorless

b Odor Terpene odor; midway between that of cloves and turpentine

c Odor Threshold
 d pH
 e Melting Point/
 No data available
 No data available

Freezing Point

f Boiling Point 262-264°C g Flash Point 93°C

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



Vapor density No data available Specific Gravity @ 25°C: 0.899-0.908 m

Soluble in oils, ether and ethanol, Insoluble in water Solubility n

Auto-ignition Temp. No data available 0 Decomposition Temp, No data available р q Viscosity No data available Explosive properties No data available Oxidizing properties No data available Other Safety Information No data available

STABILITY AND REACTIVITY Section 10:

10.1 Reactivity No data available

Chemical Stability Stable under recommended storage conditions 10.2

Possibility of Hazardous reactions 10.3 No data available 10.4 Conditions to avoid No data available 10.5 Incompatible materials Strong oxidizing agents Hazardous decomposition products No data available 10.6 **Further Information** 10.7 No data available

Section 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

No data available Acute Toxicity LD50-Oral No data available LC50-Inhalation No data available LD50-Dermal No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ Cell mutagenicity No data available

Carcinogenicity

No component of this product, present levels greater than or equal to 0.1% is identified **IARC**

as probable, possible or confirmed human carcinogen by IARC.

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

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

No component of this product, present at levels greater than or equal to 0.1% is identified

OSHA as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available No data available Teratogenicity Specific target organ toxicity-single No data available exposure (GHS)

Specific target organ toxicity-repeated

exposures (GHS)

Aspiration Hazards No data available Potential Health effects

Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have

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No data available

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not been thoroughly investigated

Synergistic effects No data available RTECS: DT8400000

Section 12: ECOLOGICAL INFORMATION

No data available 12.1 **Toxicity** Persistence and degradability No data available 12.2 Bioaccumulative potential 12.3 No data available Mobility in soil No data available 12.4 12.5 Results of PBT and vPvB assessment No data available Other adverse effects 12.6 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 dangerous goodsIMDGNot dangerous goodsIATANot 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 No SARA hazards

OSHA Hazards No known OSHA hazards

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

components

Pennsylvania Right to Know components Caryophyllene CAS# 87-44-5 Rev. Date:

New Jersey Right to Know components Caryophyllene CAS# 87-44-5 Rev. 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.

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Section 16: OTHER INFORMATION

HMIS Rating
Health hazard 0
Chronic Health Hazard
Flammability 1
Reactive Hazard 0

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