

Version 1.0 Revision Date 29.11.2021 Print Date 29.11.2021 <u>www.markherb.com</u>

# Section 1. Product and Company Information

GHS Product Name:	Caryophyllene Oxide	
Product Code:	TER-20-1	
CAS:	[1139-30-6]	
Molecular Formula:	C <sub>15</sub> H <sub>24</sub> O	
	beta-Caryophyllene oxide; (-)-Epoxydihydrocaryophyllene; (1R,4R,6R,10S)-9-Methylene-	
	4,12,12-trimethyl-5-oxatricyclo[8.2.0.04,6]dodecane; trans-caryophyllene oxide;	
	Epoxycaryophyllene	
Company:	MarkHerb	
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# Section 2. Hazards Identification

#### 2.1 GHS classification

PHYSICAL HAZARDS Not classified
HEALTH HAZARDS
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
ENVIRONMENTAL HAZARDS
Hazardous to aquatic environment, long term (Chronic) (Category Chronic 2), H411

#### 2.2 GHS label elements, including precautionary statements

#### Pictograms or hazard symbols



Signal word Warning			
Hazard statements			
H315	Causes skin irritation		
H319	Causes serious eye irritation		
H411	Toxic to aquatic life with long lasting effects		
Precautionary statements			
P264	Wash skin thoroughly after handling		

P273	Avoid release to the environment
P280	Wear eye protection/ face protection
	Wear protective gloves
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
P332 + P313	If skin irritation occurs: Get medical advice/ attention
P337 + P313	If eye irritation persists: Get medical advice/ attention
P362	Take off contaminated clothing and wash before reuse
P391	Collect spillage
P501	Dispose of contents/ container to an approved waste disposal plant

# Section 3. Information on Basic Physical and Chemical Properties

Melting Point:         62-63 °C           Boiling Point:         279.7±19.0 °C at 760 mmHg           Flash Pt:         119.7±19.5 °C           Evaporation Rate:         No data
Flash Pt: 119.7±19.5 °C
Evaporation Rate: No data
Flammability (solid, gas): No data available.
Explosive Limits: LEL: No data. UEL: No data
Vapor Pressure (vs. Air or mm Hg): 0.0±0.6 mmHg at 25°C
Vapor Density (vs. Air = 1): No data.
Specific Gravity (Water = 1): 0.960
Solubility in Water: <1 mg/ml
Solubility Notes: Slightly soluble in Methanol and chloroform; Diethylether (soluble); Ethanol
(soluble)
Autoignition Pt: No data
Percent Volatile: No data
Partition coefficient: No data
pH: No data

# Section 4. First aid measures

Description of first aid measures
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact
Wash off with soap and plenty of water.
In case of eye contact
Flush eyes with water as a precaution.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.
Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2).
Indication of any immediate medical attention and special treatment needed
No data available

# Section 5. Fire Fighting Measures

#### Suitable extinguishing

Media: Dry chemical, foam, water spray, carbon dioxide.

**Precautions for firefighters:** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

#### **Special protective:**

equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment.

# Section 6. Accidental Release Measures

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

Avoid dust formation. Avoid breathing vapors, mist or gas.

#### **Environmental precautions**

Do not let product enter drains.

#### **General Information:**

Use proper personal protective equipment as indicated in Section 8.

#### Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete.

# Section 7. Handling and Storage

#### Precautions for safe handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

#### Storage:

Store in a well closed container. Protected from air and light, refrigerate or freeze (2-8°C)

#### Specific end uses

Use in a laboratory fume hood where possible. Refer to employer is COSHH risk assessment.

# Section 8. Exposure Controls / Personal Protection

#### **Engineering controls:**

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Control parameters: Not set up

#### Personal protective equipment:

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Wear safety glasses and chemical goggles if splashing is possible.

# Section 9. Stability and Reactivity

# ReactivityStable under recommended transport or storage conditions.Chemical StabilityStable under normal temperatures and pressures.Conditions to AvoidIncompatible materials, strong oxidants, heat.Incompatibilities with Other MaterialsStrong oxidising/reducing agents, strong acids/alkalis.Hazardous Decomposition ProductsNitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.Hazardous PolymerizationHas not been reported.

## Section 10. Toxicological Information

Acute Toxicity:	LD <sub>50</sub> Oral - Rat - > 5000 mg/kg
	LD <sub>50</sub> Dermal - Rabbit - > 2000 mg/kg
Skin corrosion/irritation:	Skin - Rabbit
	Result: Skin irritation - 24 h
Serious eye damage/irritation:	No data
Germ cell mutagenicity:	No data
Carcinogenicity:	IARC = No data NTP = No data
Reproductive toxicity:	No data

## Section 11. Ecological Information

Toxicity:	No data
Persistence and degradability:	No data
Bioaccumulative potential:	No data
Mobility in soil:	No data
Results of PBT & vPvB assessment:	No data
Other adverse effects:	May be harmful to the aquatic environment.

# Section 12. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

# Section 13. Transport Information

Hazards Class
Does not meet the criteria for classification as hazardous for transport.
UN proper shipping name ADR/RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods
Transport hazard class(es)
Does not meet the criteria for classification as hazardous for transport.

# Section 14. Regulatory Information

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

# Section 15. Additional Information

This MSDS above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

----End of safety data sheet----