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## 1. Identification

Product identifier used on the label

# Natural β-Caryophyllene 80 by Isobionics®

## Recommended use of the chemical and restriction on use

Recommended use\*: flavoring substance Recommended use\*: flavoring substance Unsuitable for use: Not intended for sale to or use by the general public.

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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

<u>Company:</u> BASF CORPORATION 100 Park Avenue Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### **Emergency telephone number**

24 Hour Emergency Response Information CHEMTREC: 1-800-424-9300 BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification Synonyms: Caryophyllene

## 2. Hazards Identification

## According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

### **Classification of the product**

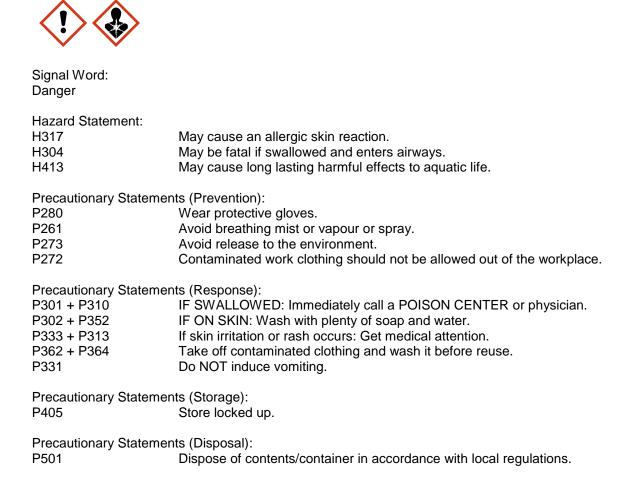
Asp. Tox.	1	Aspiration hazard
Skin Sens.	1	Skin sensitization
Aquatic Chronic	4	Hazardous to the aquatic environment - chronic

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## Label elements

Pictogram:



### Hazards not otherwise classified

No data available.

### 3. Composition / Information on Ingredients

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Bicyclo[7.2.0]undec-4-ene, 4,11,11-trimethyl-8-methylene-, (1R,4E,9S)-CAS Number: 87-44-5 Content (W/W): 75.0 - 100.0% Synonym: No data available.

### 4. First-Aid Measures

Description of first aid measures

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#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

#### If on skin:

Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Seek medical attention.

#### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

#### If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: itching, dermatitis, coughing, wheezing, dyspnea, choking

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

Note to physician Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### 5. Fire-Fighting Measures

#### **Extinguishing media**

Suitable extinguishing media: water spray, foam, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons: water jet

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

Hazards during fire-fighting: carbon oxides, harmful vapours The substances/groups of substances mentioned can be released in case of fire.

#### Advice for fire-fighters

Protective equipment for fire-fighting: Wear self-contained breathing apparatus and chemical-protective clothing.

#### Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Cool endangered containers with water-spray.

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### 6. Accidental release measures

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

Use personal protective clothing. Information regarding personal protective measures, see section 8. Ensure adequate ventilation. Do not breathe vapour/spray. Avoid contact with the skin, eyes and clothing.

#### **Environmental precautions**

Do not discharge into drains/surface waters/groundwater. Inform authorities in the event of product spillage to water courses or sewage systems.

#### Methods and material for containment and cleaning up

For small amounts: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust). For large amounts: Dike spillage. Pump off product. Dispose of absorbed material in accordance with regulations.

## 7. Handling and Storage

#### Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Wear suitable protective clothing and eye/face protection. Avoid contact with the skin, eyes and clothing. Keep container tightly sealed.

Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

### Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

## 8. Exposure Controls/Personal Protection

No substance specific occupational exposure limits known.

#### Personal protective equipment

#### Respiratory protection:

Wear a NIOSH-certified (or equivalent) respirator as necessary.

#### Hand protection:

Wear impermeable chemical resistant protective gloves.

#### Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

#### **Body protection:**

Body protection must be chosen based on level of activity and exposure.

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#### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid contact with skin. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

## 9. Physical and Chemical Properties

Form: Odour:	liquid No data available.	
pH value:	No data available.	
Melting point:	-100 °C	(measured)
31	( 1,021 hPa)	(
Freezing point:	No data available.	
Boiling point:	253 - 262 °C	(measured)
	( 1,013 hPa)	· · · ·
Flash point:	105.5 °C	(other)
Flammability:	hardly combustible	(no data)
Lower explosion limit:	For liquids not relevant for	
	classification and labelling. The lower	
	explosion point may be 5 - 15 °C	
	below the flash point.	
Upper explosion limit:	For liquids not relevant for	
	classification and labelling.	
Autoignition:	215 °C	(Regulation
		440/2008/EC, A.15)
Vapour pressure:	0.06 hPa	(measured)
	( 20 °C)	
Relative density:	0.901	(other)
	( 20 °C)	
Vapour density:	7.0466	
	Heavier than air.	
Partitioning coefficient n-	6.23	(measured)
octanol/water (log Pow):	( 25 °C)	
Self-ignition	not self-igniting	
temperature:		
Thermal decomposition:	No decomposition if stored and handled	as
	prescribed/indicated.	
Viscosity, dynamic:	No data available.	
Viscosity, kinematic:	No data available.	
Particle size:	not applicable	
Solubility in water:	0.088 mg/l	
Malarmana	(20 °C)	
Molar mass:	204.36 g/mol	

## **10. Stability and Reactivity**

#### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effects to metal are not anticipated. Formation of Remarks: flammable gases:

Forms no flammable gases in the presence of water.

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### **Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

#### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

#### **Conditions to avoid**

Avoid electro-static discharge. Avoid all sources of ignition: heat, sparks, open flame.

#### Incompatible materials

None known during use and storage if used according to instructions.

#### Hazardous decomposition products

Decomposition products: Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

## **11. Toxicological information**

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### **Acute Toxicity/Effects**

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion.

<u>Oral</u> Type of value: LD50 Species: mouse (male) Value: > 5,000 mg/kg

Inhalation No data available.

Dermal No data available.

Assessment other acute effects Assessment of STOT single: Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Irritation / corrosion Assessment of irritating effects: Not irritating to eyes and skin.

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<u>Skin</u> Species: In vitro assay Result: non-irritant Method: OECD Guideline 439

<u>Eye</u> Species: rabbit Result: non-irritant Method: Guideline 92/69/EEC, B.5

<u>Sensitization</u> Assessment of sensitization: Sensitization after skin contact possible.

<u>Aspiration Hazard</u> May also damage the lung at swallowing (aspiration hazard).

## **Chronic Toxicity/Effects**

<u>Repeated dose toxicity</u> Assessment of repeated dose toxicity: Not classified, due to lack of data.

<u>Genetic toxicity</u> Assessment of mutagenicity: Based on available data, the classification criteria are not met.

<u>Carcinogenicity</u> Assessment of carcinogenicity: Not classified, due to lack of data.

<u>Reproductive toxicity</u> Assessment of reproduction toxicity: Not classified, due to lack of data.

<u>Teratogenicity</u> Assessment of teratogenicity: Not classified, due to lack of data.

## **12. Ecological Information**

### Toxicity

Aquatic toxicity Assessment of aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms.

Assessment of terrestrial toxicity No data available.

### Persistence and degradability

Assessment biodegradation and elimination (H2O) Not readily biodegradable (by OECD criteria).

## **Bioaccumulative potential**

Assessment bioaccumulation potential No data available.

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Bioaccumulation potential No data available.

## Mobility in soil

Assessment transport between environmental compartments No data available. No data available.

## **Additional information**

Other ecotoxicological advice: No data available.

## 13. Disposal considerations

#### Waste disposal of substance:

Observe national and local legal requirements.

#### Container disposal:

Dispose of in accordance with national, state and local regulations.

## **14. Transport Information**

Land transport USDOT	Not classified as a dangerous good under transport regulations
<b>Sea transport</b> IMDG	Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

## **15. Regulatory Information**

#### **Federal Regulations**

# Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### NFPA Hazard codes:

Health: 2 Fire: 1 Reactivity: 0 Special:

HMIS III ratingHealth: 2Flammability: 1Physical hazard: 0

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Hazardous to the aquatic environment - chronic

Assessment of the	<u>e hazard classes acco</u>	ording to UN GHS criteria (most recent version):	
Asp. Tox.	1	Aspiration hazard	
Skin Sens.	1B	Skin sensitization	

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## 16. Other Information

**Aquatic Chronic** 

#### SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2023/01/26

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END OF DATA SHEET