

**BETA IONONE**

Revision date: 23-01-2023  
Version: 4.0/CLP/EN

Print Date: 02-05-2024  
Page: 1 / 5

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

### 1.1. Identification of the substance/mixture

Trade name: **BETA IONONE**  
Substance name: TRANS-BETA-IONONE  
CAS Number: 79-77-6  
CE Number: 201-224-3  
REACH Registration number: 01-2119449921-34

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Raw material for the manufacture of fragrances and/or flavourings.

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

Company: **Prodasynt**  
Address: 4 Av. Joseph Honoré Isnard  
06130 GRASSE – FRANCE  
Telephone: (00 33) 4 93 09 00 11  
Fax: (00 33) 4 22 13 07 38  
E-mail: info@prodasynt.com

### 1.4. Emergency telephone number

(00 33) 4 93 09 00 11 (8:30 - 17:30)  
National emergency information services:  
FR: (+33) 1 45 42 59 59 (24h/7)

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Hazardous to the aquatic environment, long-term (chronic) - Category 2 - H411

### 2.2. Label Elements

Hazard pictograms:



#### Hazard statements:

H411 – Toxic to aquatic life with long lasting effects.

#### Precautionary statements:

P273 – Avoid release to the environment.  
P391 – Collect spillage.  
P501 – Dispose of contents/container according to local legislation.

### 2.3. Other hazards

Product not containing any component that meets the criteria for PBT or vPvB according to Regulation (EC) 1907/2006, Annex XIII.  
Product not containing any component identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Chemical name: TRANS-BETA-IONONE  
CAS number: 79-77-6  
EC number: 201-224-3

#### Hazardous constituents:

Chemical Name	% (w/w)	CAS No. EC No. Index No.	Classification according to Regulation 1272/2008	Specific Concentration Limit, M-factor, ATE, SVHC
TRANS-BETA-IONONE	≥50	79-77-6 201-224-3	Aquatic Chronic 2 - H411	ATE (oral): 3940 mg/kg

See the full text of the hazard statements in section 16.

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**BETA IONONE**

Revision date: 23-01-2023

Version: 4.0/CLP/EN

Print Date: 02-05-2024

Page: 2 / 5

**3.2. Mixtures**

Not applicable.

**SECTION 4. FIRST-AID MEASURES**

**4.1. Description of necessary first aid measures**

Ingestion:	Rinse mouth with water. Obtain medical advice. Keep at rest. Do not induce vomiting.
Eye contact:	In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical advice.
Inhalation:	Remove person to fresh air and keep at rest. Seek immediate medical advice.
Skin contact:	Take off immediately all contaminated clothing. Thoroughly wash affected skin with soap and water. Seek medical attention if symptoms persist.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

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

No information available.

**SECTION 5. FIRE-FIGHTING MEASURES**

**5.1. Extinguishing Media**

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

For safety reasons do not use full water jet.

**5.2. Special hazards arising from the substance or mixture**

Known or Anticipated Hazardous Products of Combustion: Emits toxic fumes under fire conditions.

**5.3. Advice for firefighters**

High temperatures can lead to high pressures inside closed containers.

Avoid inhalation of vapors that are created. Use appropriate respiratory protection.

Do not allow spillage of fire to be poured into drains or watercourses.

Wear self-contained breathing apparatus and protective clothing.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate surrounding areas. Ensure adequate ventilation. Keep unnecessary and unprotected personnel from entering.

Do not breathe vapor/spray. Avoid contact with skin and eyes. Information regarding personal protective measures: see section 8.

**6.2. Environmental precautions**

To avoid possible contamination of the environment, do not discharge into any drains, surface waters or groundwaters.

**6.3. Methods and materials for containment and cleaning up**

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash).

Place in covered containers using non-sparking tools and transport outdoors.

Avoid open flames or sources of ignition (e.g. pilot lights on gas hot water heater).

Ventilate area and wash spill site after material pickup is complete.

**6.4. Reference to other sections**

Information regarding exposure controls, personal protection and disposal considerations can be found in sections 8 and 13.

**SECTION 7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Do not store or handle this material near food or drinking water. Do not smoke.

Avoid contact with the eyes, skin and clothing. Wear protective clothing and use glasses.

Observe the rules of safety and hygiene at work.

Keep in the original container or an alternative made from a compatible material.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed and preferably full containers in a cool, dry and ventilated area, protected from light.

Keep away from sources of ignition (e.g. hot surfaces, sparks, flame and static discharges).

Keep away from incompatible materials (see section 10).

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**BETA IONONE**

Revision date: 23-01-2023  
Version: 4.0/CLP/EN

Print Date: 02-05-2024  
Page: 3 / 5

**7.3. Specific end use(s)**

No information available.

**SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**8.1. Control parameters**

Components with occupational exposure limits:  
None known.

**8.2. Exposure controls**

Appropriate engineering controls: Measures should be taken to prevent materials from being splashed into the body. Provide adequate ventilation, according to the conditions of use. Use a mechanical exhaust if required.

Eye/Face protection: Chemical safety goggles are recommended. Wash contaminated goggles before reuse.

Hand Protection: Chemical-resistant gloves are recommended. Wash contaminated gloves before reuse.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Respiratory Protection: In case of insufficient ventilation, use suitable respiratory equipment.

Environmental exposure controls: Emissions from ventilation or process equipment should be checked to ensure they comply with environmental protection legislation. In some cases, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

Physical state: Liquid

Colour: Conforms to standard

Odour: Conforms to standard

Melting point/freezing point: CA. - 35°C

Boiling point or initial boiling point and range (°C): CA. 267°C (1013 mbar)

Flammability: Not determined

Lower and upper explosion limit: Not determined

Flash point: 126 °C

Auto-ignition temperature: AUTOIGNITION T: 270°C

Decomposition temperature: Not determined

pH: Not determined

Kinematic viscosity: Not determined

Solubility: POORLY SOLUBLE IN WATER (0,128 g/L at 25°C)/SOLUBLE IN ETHANOL

Partition coefficient n-octanol/water (log value): LOG POW 4,0

Vapour pressure: 0,0056 mbar (20°C)

Density and/or relative density: 0,943—0,948 g/mL (20°C) / 0,943—0,948 (20°C)

Relative vapour density: Not determined

Particle characteristics: Not determined

**9.2. Other information**

**9.2.1. Information with regard to physical hazard classes:**

No information available.

**9.2.2. Other safety characteristics:**

No information available

**SECTION 10. STABILITY AND REACTIVITY**

**10.1. Reactivity**

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

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

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

**10.4. Conditions to Avoid**

Conditions to Avoid: Excessive heat, flame or other ignition sources.

**10.5. Incompatible materials**

Avoid contact with strong acids and bases and oxidizing agents.

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**BETA IONONE**

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Version: 4.0/CLP/EN

Print Date: 02-05-2024

Page: 4 / 5

**10.6. Hazardous decomposition products**

During combustion may form carbon monoxide and unidentified organic compounds.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

<b>Acute toxicity</b>	Based on the data available, the criteria for classification are not met. Experimental/calculated data: · LD50(acute/oral) : > 4000 mg/kg. (Rat). · LD50 (acute/dermal) : > 2000 mg/kg. (Rat). (OECD 402).
<b>Skin corrosion/irritation</b>	Based on the data available, the criteria for classification are not met. Experimental/calculated data: · Skin irritation : Non-irritant. (Rabbit). (OECD 404).
<b>Serious eye damage/irritation</b>	Based on the data available, the criteria for classification are not met. Experimental/calculated data: · Eye irritation : Non-irritant. (Rabbit). (OECD 405).
<b>Respiratory or skin sensitisation</b>	Based on the data available, the criteria for classification are not met.
<b>Germ cell mutagenicity</b>	Based on the data available, the criteria for classification are not met.
<b>Carcinogenicity</b>	Based on the data available, the criteria for classification are not met.
<b>Reproductive toxicity</b>	Based on the data available, the criteria for classification are not met.
<b>STOT-single exposure</b>	Based on the data available, the criteria for classification are not met.
<b>STOT-repeated exposure</b>	Based on the data available, the criteria for classification are not met.
<b>Aspiration hazard</b>	Based on the data available, the criteria for classification are not met.

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties:**

Product not containing any component identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

**11.2.2. Other information:**

No information available

**SECTION 12. ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**Assessment:**

Toxic to aquatic life with long lasting effects.

**Experimental/calculated data:**

- Toxicity for fish: LC50 (96h) : 5,09 mg/L. (Pimephales promelas).
- Toxicity for aquatic invertebrates: EC50 (48h) : 4,03 mg/L. (Daphnia magna). (OECD 202).
- Toxicity for algae: ErC50 (72h) : 22,15 mg/L. (Scenedesmus subspicatus).
- Toxicity for bacteria/effect on activated sludge: EC50 (0.5h) : 1000 mg/L.

**12.2. Persistence and degradability**

Biodegradation : 70 - 80 %. (OECD 301 F).

**12.3. Bioaccumulative potential**

log Kow : 4.

**12.4. Soil mobility**

No information available.

**12.5. Results of PBT and vPvB assessment**

Product not containing any component that meets the criteria for PBT or vPvB according to Regulation (EC) 1907/2006, Annex XIII.

**12.6. Endocrine disrupting properties**

Product not containing any component identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

**12.7. Other adverse effects**

See also sections 6, 7, 13 and 15

Do not allow to get into waste water or waterways.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Dispose of in accordance with national and local environmental regulations.

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Print Date: 02-05-2024  
Page: 5 / 5

**SECTION 14: TRANSPORT INFORMATION**

	ADR/RID/ADN	IMDG	IATA-ICAO
<b>14.1. UN Number</b>	UN3082	UN3082	UN3082
<b>14.2. UN Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRANS-BETA-IONONE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRANS-BETA-IONONE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRANS-BETA-IONONE)
<b>14.3. Transport Hazard Class(es)</b>	9	9	9
<b>14.4. Packing Group</b>	III	III	III
<b>14.5. Environmental hazards</b>	Yes	Yes	Yes
<b>Additional information</b>			

**14.6 Special precautions for user**

None known

**14.7. Maritime transport in bulk according to IMO instruments**

No information available

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

No information available

**15.2. Chemical safety assessment**

A chemical safety assessment has been carried out for the substance or mixture by the supplier

**SECTION 16: OTHER INFORMATION**

**Full text of the R-phrases, hazard statements and precautionary statements mentioned in section 3:**

H411 – Toxic to aquatic life with long lasting effects.

The information included in this safety data sheet is based on the available data at the moment this document is issued. It is meant to be a description of safety requirements for our product and does not stand for a guarantee of its properties. The user is responsible for taking all necessary steps leading to compliance with local rules and legislation.

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