

**GAMMA BUTYROLACTONE**Revision date: 05-08-2016  
Version: 3.0/CLP/ENPrint Date: 17-02-2020  
Page: 1 / 5**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING****1.1. Identification of the substance/mixture**

**Trade name:** GAMMA BUTYROLACTONE  
**Substance name:** GAMMA-BUTYROLACTONE  
**CAS Number:** 96-48-0  
**CE Number:** 202-509-5  
**REACH Registration number:** Exempt from registration (imported/manufactured < 1 ton/year)

**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**

Acute Toxicity - Category 4 (oral) - H302  
Serious eye damage - Category 1 - H318  
Specific target organ toxicity following single exposure - Category 3 (narcotic effects) - H336

**2.2. Label Elements****Hazard pictograms:****Signal Word:**

Danger

**Hazard statements:**

H302 - Harmful if swallowed.  
H318 - Causes serious eye damage.  
H336 - May cause drowsiness or dizziness.

**Precautionary statements:**

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312+P330 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.  
P304+P340+P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**2.3. Other hazards**

No Information available

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

**Chemical name:** GAMMA-BUTYROLACTONE  
**CAS number:** 96-48-0  
**EC number:** 202-509-5

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**Hazardous constituents:**

Chemical Name	% (w/w)	CAS No EC No	Classification according to Regulation 1272/2008
GAMMA-BUTYROLACTONE	≥50	96-48-0 202-509-5	Acute Tox. 4 (oral) - H302 Eye Dam. 1 - H318 STOT SE 3 (narc.) - H336

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

**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.

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Page: 3 / 5**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).

**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**

Appearance:	Liquid
Colour:	Conforms to standard
Odour:	Conforms to standard
Odour threshold:	Not determined
pH:	Not determined
Melting point/freezing point:	-44
Boiling point/boiling range:	204
Flash point:	93 °C
Evaporation rate:	Not determined
Flammability:	Not determined
Lower flammability/Explosive limit:	Not determined
Upper flammability/Explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour Density:	Not determined
Density:	1,123–1,133 g/mL (20°C)
Relative density:	1,123–1,133 (20°C)
Water solubility:	SOL. IN WATER, PROPYLENE GLYCOL, ALCOHOL AND OILS
Solubility in other solvents:	SOLUBLE IN ETHANOL.
Partition coefficient n-octanol/water:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity, dynamic:	Not determined
Viscosity, kinematic:	Not determined
Explosive properties:	Not determined
Oxidising properties:	Not determined

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**9.2. Additional information**

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.

**10.6. Hazardous decomposition products**

During combustion may form carbon monoxide and unidentified organic compounds.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

<b>Acute toxicity</b>	Harmful if swallowed.
<b>Skin corrosion/irritation</b>	Based on the data available, the criteria for classification are not met.
<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<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>	May cause drowsiness or dizziness.
<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.

**SECTION 12. ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**Assessment:**

Based on the data available, the criteria for classification are not met.

**Experimental/calculated data:**

No information available.

**12.2. Degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Soil mobility**

No information available.

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

No information available.

**12.6. 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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**SECTION 14: TRANSPORT INFORMATION**

	ADR/RID/ADN	IMDG	IATA-ICAO
<b>14.1. UN Number</b>	Not classified as hazardous goods	Not classified as hazardous goods	Not classified as hazardous goods
<b>14.2. UN Proper Shipping Name</b>	Not applicable	Not applicable	Not applicable
<b>14.3. Transport Hazard Class(es)</b>	Not applicable	Not applicable	Not applicable
<b>14.4. Packing Group</b>	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>	No	No	No
<b>Additional information</b>			

**14.6 Special precautions for user**

None known

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

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**

No information available

**SECTION 16: OTHER INFORMATION**

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

H302 – Harmful if swallowed.

H318 – Causes serious eye damage.

H336 – May cause drowsiness or dizziness.

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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