

# Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II,

Amended by COMMISSION REGULATION (EU) 2020/878

According to REGULATION (EC) No 1272/2008

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

Identification on the label/Trade name: **1,3 -Propanediol**

Identification of the product: CAS#504-63-2

REACH registration No.: 01-2119489383-28-0023

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

#### 1.2.1 Identified uses:

For cosmetics or industry use.

#### 1.2.2 Uses advised against:

Not available.

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

Supplier: INTERCHIMIE

Address: 13 rue Louis Blériot  
FR- 77290 COMPANS

Telephone: T: +33 (0)1 64 77 76 27

E-mail: qualite@interchimie.fr  
www.interchimie.fr

### 1.4 Emergency telephone Number

Emergency telephone Number: 0371-55081107 France : +33 1 45 42 59 59

## Section 2: Hazards Identification

### 2.1 Classification of the substance or mixture:

Not classified for self classification according to Regulation (EC) No 1272/2008.

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## 2.2 label elements:

Hazard Pictogram(s):	No hazard pictogram is used.
Signal Word(s):	No signal word is used.
Hazard Statement(s):	Not applicable.
Precautionary statement(s)	Not applicable.

## 2.3 Other hazards:

The substance does not contain PBT/vPvB.

The substance does not contain endocrine.

## Section 3: Composition/information

Substance/Mixture:	Substance
Chemical Name:	1,3-Propanediol
Registration No.:	/
CAS No.:	504-63-2
EC No.:	207-997-3

## Section 4: First aid measures

### 4.1 Description of first aid measures:

No hazards which require special first aid measures. In all cases of doubt, or when symptoms persist, seek medical attention.

#### 4.1.1 In case of inhalation:

Move to fresh air in case of accidental inhalation of vapours or decomposition products. If unconscious, place in recovery position and seek medical advice.

#### 4.1.2 In case of skin contact:

No hazards which require special first aid measures.

#### 4.1.3 In case of eyes contact:

No hazards which require special first aid measures.

#### 4.1.4 In case of ingestion:

No hazards which require special first aid measures.

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

The product is not classified as harmful to human health effect.

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

If skin irritation or rash occurs, get medical advice/attention.

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## Section 5: Firefighting measures

### 5.1 Extinguishing media:

#### 5.1.1 Suitable extinguishing media:

Suitable extinguishing media: Water, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

#### 5.1.2 Unsuitable extinguishing media:

Not available.

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

Exposure to decomposition products may be a hazard to health.

### 5.3 Advice for firefighters:

Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas. Evacuate personnel and keep upwind of fire.

## Section 6: Accidental release measures

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

#### 6.1.1 For non-emergency personnel:

Use personal protective equipment. Ensure adequate ventilation.

#### 6.1.2 For emergency responders:

Wear self-contained breathing apparatus.

### 6.2 Environmental Precautions:

Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and material for Containment and Cleaning up:

Methods for cleaning up: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations.

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

## Section 7: Handling and storage

## **7.1 Precautions for safe handling:**

### **7.1.1 Protective measures:**

For personal protection see section 8. No special handling advice required.

### **7.1.2 Advice on general occupational hygiene:**

Not to eat, drink and smoke in work areas; To wash hands after use; and to remove contaminated clothing and protective equipment before entering eating areas.

## **7.2 Conditions for safe storage, including any incompatibilities:**

Store in a cool, dry place. Keep container closed to prevent contamination.

### **7.3 Specific end use(s):**

Store bulk quantities under nitrogen blanket.

No decomposition if stored and applied as directed.

## **Section 8: Exposure controls/personal protection**

### **8.1 Control parameters:**

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

### **8.2 Exposure controls:**

#### **8.2.1 Appropriate engineering controls:**

Ensure adequate ventilation, especially in confined areas.

#### **8.2.2 Individual protection measures, such as personal protective equipment:**

Eye protection: Wear safety glasses with side shields.

Hand protection: Glove material.

Body protection: Protective suit.

Respiratory protection: Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacture.

Thermal hazards: No data available

#### **8.2.3 Environmental exposure controls:**

Try to prevent the material from entering drains or water courses.

No special environmental precautions required.

## **Section 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties:**

Appearance:	Clear liquid
Odour:	Odourless
Odour threshold:	Not available
Melting point:	-27°C
Boiling point:	210-214 °C
Flammability:	Not flammable
Lower and upper explosion limit:	For liquids not relevant for classification and labeling
Flash point (°C):	> 78°C
Auto-ignition temperature:	400°C
Decomposition temperature:	Not determined
PH :	Not measurable
Kinematic viscosity:	44.923 mm <sup>2</sup> /s (static) at 24 °C
Solubility in water:	> 1000 g/L at 21 °C and pH 6-8.
Partition coefficient n-octanol/water (log value):	
Vapour pressure:	Not measurable
Density and/or relative density:	3.91 Pa at 25 °C
Relative vapour density:	1.05 at 25 °C
Particle characteristics:	Not measurable
<b>9.2 Other information:</b>	Not applicable
Explosive properties:	
Oxidation properties:	Non explosive
Surface tension:	Non oxidising
Dissociation constant:	74.161 mN/m at 21 °C
Molecular Formula:	Study technically not feasible
Molecular Weight:	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub> 76.10

## Section 10: Stability and reactivity

### 10.1 Reactivity:

No hazardous reactions under recommended storage conditions.

### 10.2 Chemical stability:

Stable under recommended storage conditions.

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### **10.3 Possibility of hazardous reactions:**

Stable at normal temperatures and storage conditions.

### **10.4 Conditions to avoid:**

Temperature : > 129 °C.

### **10.5 Incompatible materials:**

Strong acids and oxidizing agents.

### **10.6 Hazardous decomposition products:**

No decomposition if stored normally.

## **Section 11: Toxicological information**

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

#### **Acute toxicity:**

LD50(Oral, Rat): 14.9 mL/kg.

LD50(Dermal, Rat ): >4200 mg/kg.

Six male rats were exposed nose-only for a single 4-hour period to 1,3-propanediol aerosol in air. Rats were weighed and observed for clinical signs of toxicity during a 14-day recovery period. The approximate lethal concentration (ALC) was greater than 5.0 mg/L.

#### **Skin corrosion/ irritation:**

Propanediol-1,3 caused very slight or well-defined erythema of the treated skin and is, therefore, considered to be a slight primary skin irritant.(Rabbit).

#### **Serious eye damage/irritation:**

The ocular effects of propanediol-1,3 consisted of slight redness of the conjunctivae in four out of six rabbits. After 48 hours these effects had cleared up. (Rabbit).

#### **Respiratory or skin sensitization:**

Respiratory sensitisation: No study available.

Skin sensitization: No sensitization occurred (guinea pig).

#### **Germ cell mutagenicity:**

No study available.

#### **Carcinogenicity:**

No study available.

#### **Reproductive toxicity:**

No adverse effect observed (Rat).

#### **STOT-single exposure:**

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No adverse effects.

**STOT-repeated exposure:**

No adverse effects.

**Aspiration hazard:**

No adverse effects.

**11.2 Information on other hazards**

No study available.

## **Section 12: Ecological information**

### **12.1 Toxicity**

**Acute (short-term) toxicity:**

LC50 (96 h, fish): >9720 mg/L.

EC50(48 h, aquatic invertebrates): 7417 mg/L.

EC50(72h, aquatic algae and cyanobacteria): >10000 mg/L.

EC50 (16 min, microorganisms): 6000 mg/L.

**Chronic (long-term) toxicity:**

NOEC(aquatic invertebrates):>=100 mg/L.

### **12.2 Persistence and degradability**

The test substance was shown to be ready degradable in an OECD 301B study. The amount of carbon dioxide evolution was 71% after 28 days, indicating that the test substance is completely mineralized without any significant metabolites or degradation products. Persistence of the test substance in the environment is therefore not expected.

### **12.3 Bioaccumulative potential**

The study does not need to be conducted because the substance has a low potential for bioaccumulation based on  $\log K_{ow} \leq 3$ .

### **12.4 Mobility in soil**

The study does not need to be conducted because the substance is readily biodegradable.

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

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT(persistent/ bioaccumulative/toxic) criteria or the vPvB(very persistent/very bioaccumulative) criteria. Self classification.

### **12.6 Endocrine disrupting properties**

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No study available.

## 12.7 Other adverse effects

No study available.

## Section 13: Disposal considerations

### 13.1 Waste treatment method

Any relevant Union provisions relating to waste or, in their absence, any relevant national or regional provisions in force shall be referred to.

Product: Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

## Section 14: Transport information

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	Not regulated	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard Class(es)	Not regulated	Not regulated	Not regulated	Not regulated
Packing group	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL and the IBC Code	Not regulated	Not regulated	Not regulated	Not regulated

## Section 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

#### Relevant information regarding authorization:

Not applicable.

#### Relevant information regarding restriction:

Not applicable.

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**Other EU regulations:**

Not applicable.

**Other National regulations:**

Not applicable.

**15.2 Chemical safety assessment**

Not required.

**Section 16: Other information**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.