

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.1  
Prepared on : 12.08.2025  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking.

### 1.1 Product identifiers

**Product name** Isopropyl alcohol  
**Product Number** PSR44292 / PSR48103 / PSR36669  
**Brand** PureSynth research chemicals  
**CAS No.** 67-63-0

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

**Identified uses** : Laboratory chemicals

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

**Company** PureSynth Research Chemicals GmbH.  
64683 Einhausen Marie-Curie-StraBe. 3, Germany

### 1.4 Emergency telephone number

**Worldwide Helpline No.:** 1800-8908-260

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Flammable liquids, (Category 2) H225: Highly flammable liquid and vapour.  
Eye irritation, (Category 2) H319: Causes serious eye irritation.  
Specific target organ toxicity - single exposure, (Category 3), Central nervous system H336: May cause drowsiness or dizziness.

### 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008

#### Pictogram



**Signal word** Danger

#### Hazard statement(s)

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

#### Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting equipment.
P242	Use non-sparking tools.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3 Other hazards:

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher

## SECTION 3: Composition / information on ingredients

### 3.1 Substances

Common names & Synonyms	Mol. formula	CAS number
2-Propanol	C <sub>3</sub> H <sub>8</sub> O	67-63-0

Component	Classification	Concentration
Isopropyl alcohol	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336 Concentration limits: >= 20 %; STOT SE 3, H336;	<= 100 %

## SECTION 4: First aid measures

### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>If inhaled</b>	After inhalation: fresh air. Call in physician.
<b>In case of skin contact</b>	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
<b>In case of eye contact</b>	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
<b>If swallowed</b>	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
<b>Most important symptoms and effects, both acute and delayed</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>Indication of any immediate medical attention and special treatment needed</b>	No data available

## SECTION 5: Fire fighting measures

<b>Extinguishing media suitable extinguishing media</b>	Carbon dioxide (CO <sub>2</sub> ) Foam Dry powder
<b>Unsuitable extinguishing media</b>	For this substance/mixture no limitations of extinguishing agents are given.

<b>Special hazards arising from the substance or mixture</b>	Carbon oxides Combustible. Pay attention to flashback. Vapours are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire.
<b>Advice for fire-fighters</b>	Forms explosive mixtures with air at ambient temperatures. In the event of fire, wear self-contained breathing apparatus.
<b>Further information</b>	Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6: Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
<b>Environmental precautions</b>	Do not let product enter drains. Risk of explosion.
<b>Methods and materials for containment and cleaning up</b>	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.
<b>Reference to other sections</b>	For disposal see section 13.

## SECTION 7: Handling and storage

<b>Precautions for safe handling</b>	Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Change contaminated clothing. Wash hands after working with substance. For precautions see section 2.2.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Handle and store under inert gas. Hygroscopic
<b>Specific end use(s)</b>	Storage class (TRGS 510): 3: Flammable liquids Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls / Personal protection

<b>Control parameters</b>	Ingredients with workplace control parameters
<b>Appropriate engineering controls</b>	
<b>Personal protective equipment:</b>	
<b>Eye / face protection</b>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
<b>Skin protection</b>	This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from

	those stated in EN 16523-1 please contact the supplier of CE-approved gloves
<b>Body Protection</b>	Flame retardant antistatic protective clothing.
<b>Respiratory protection</b>	Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds
<b>Control of environmental exposure</b>	Do not let product enter drains. Risk of explosion.

## SECTION 9: Physical and chemical properties

<b>Appearance</b>	Form: liquid Colour: colourless
<b>Odour</b>	alcohol-like
<b>pH - Value</b>	at 20 °C neutral
<b>Density</b>	0.785 g/mL at 25 °C
<b>Boiling Point</b>	82 °C
<b>Melting Point</b>	-89.5 °C
<b>Solubility in water</b>	at 20 °C soluble
<b>Flash point</b>	12.0 °C - closed cup
<b>Vapour pressure</b>	43 hPa at 20 °C
<b>Auto-ignition temperature</b>	425.0 °C
<b>Vapour density</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Partition coefficient: n- octanol / water</b>	log Pow: 0.05 - Bioaccumulation is not expected
<b>Viscosity</b>	Viscosity, kinematic: No data available Viscosity, dynamic: 2.2 mPa.s at 20 °C
<b>Explosive properties</b>	Not classified as explosive.
<b>Upper / lower flammability or explosive limits</b>	Upper explosion limit: 13.4 %(V) Lower explosion limit: 2 %(V)
<b>Oxidizing properties</b>	None

**Other safety information:** Minimum ignition energy: 0.65 mJ  
Conductivity: < 0.1 µS/cm  
Surface tension: 20.8 mN/m at 25.0 °C  
Relative vapour density: 2.07

## SECTION 10: Stability and reactivity

<b>Reactivity</b>	Formation of peroxides possible. Vapours may form explosive mixture with air. Reacts with air to form peroxides.
<b>Chemical stability</b>	The product is chemically stable under standard ambient conditions (room temperature) . Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No data available
<b>Condition to avoid</b>	Warming.
<b>Incompatible materials</b>	No data available
<b>Hazardous decomposition products</b>	In the event of fire: see section 5

## SECTION 11: Toxicological information

<b>Acute toxicity</b>	LD50 Oral - Rat - 5.840 mg/kg LC50 Inhalation - Rat - male and female - 4 h – 37.5 mg/l - vapour LD50 Dermal - Rabbit - 12.800 mg/kg
<b>Skin corrosion/irritation</b>	Skin - Rabbit Result: No skin irritation - 4 h
<b>Serious eye damage/eye irritation</b>	Eyes - Rabbit Result: Eye irritation
<b>Respiratory or skin sensitization</b>	Buehler Test - Guinea pig Result: negative Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells
<b>Germ cell mutagenicity</b>	Metabolic activation: with and without metabolic activation Result: negative Test Type: In vivo micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intraperitoneal injection Result: negative
<b>Carcinogenicity</b>	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity - single exposure</b>	Inhalation, Oral - May cause drowsiness or dizziness. - Central nervous system
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Additional Information</b>	
<b>Endocrine disrupting properties</b>	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 12: Ecological information

<b>Toxicity</b>	
<b>Toxicity to fish</b>	flow-through test LC50 - Pimephales promelas (fathead minnow) - 9.640 mg/l - 96 h
<b>Toxicity to daphnia and other aquatic invertebrates</b>	EC50 - Daphnia magna (Water flea) - 13.299 mg/l - 48 h
<b>Toxicity to algae</b>	IC50 - Desmodesmus subspicatus (green algae) - > 1.000 mg/l - 72 h
<b>Toxicity to bacteria</b>	EC5 - Pseudomonas putida - 1.050 mg/l - 16 h
<b>Persistence and degradability</b>	aerobic - Exposure time 5 d
<b>Biodegradability</b>	Result: 53 % - Readily biodegradable. Theoretical oxygen demand: 2.400 mg/g Ratio BOD/ThBOD: 49 %
<b>Bio accumulative potential</b>	No bioaccumulation is to be expected (log Pow <= 4).
<b>Mobility in soil</b>	No data available
<b>Results of PBT and vPvB assessment</b>	This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>Endocrine disrupting properties</b>	
<b>Other adverse effects</b>	No data available

## SECTION 13: Disposal considerations

<b>Waste treatment methods</b>	Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
<b>Products</b>	
<b>Contaminated packaging</b>	Dispose of as unused product.

## SECTION 14: Transport information

	UN no.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>ADR / RID</b>	1219	ISOPROPANOL	3	II	No
<b>IMDG</b>	1219	ISOPROPANOL	3	II	No
<b>IATA</b>	1219	Isopropanol	3	II	No

## SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

**SECTION 16: Other information**

The information in this SDS is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The user must be determined suitability of this information for his application.