

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name : 2-Propanol (IPA)
CAS#: 67-63-0
C.I. No.:
Not
available.
Synonym
: Not
available.
Chemical Name: Not available.
Chemical Formula: C₃H₈O

Composition and Information on Ingredients

Name	S.K.U	% by Weight
2-propanol	GCS-2836	100

Hazards Identification

Classification of the substance or mixture

Classification according to Regulation
(EC) No 1999/45 Classification : F;
R11
R67
Xi; R36

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 - Warning (CLP : STOT SE 3) H336
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319
Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225
Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP : Aquatic Chronic 2) H411
Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

First Aid Measures

Description of first aid measures

Inhalation

Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.

Skin contact

Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.

Eye contact

Get medical advice. If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

Ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed Symptoms relating to use : Causes serious eye irritation.

May cause drowsiness or dizziness.

Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Fire and Explosion Data

Extinguishing media

Extinguishing media

Suitable extinguishing media : Foam, Dry powder, Carbon dioxide, Water spray, Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures For emergency responders with proper protection. : Equip cleanup crew

Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.

Notify authorities if

product enters sewers or public waters.

Methods and materials for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

Handling and Storage

Precautions for safe handling

Handling : Handle empty containers with care because residual vapours are flammable. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.

Technical protective measures prevent formation of : Provide good ventilation in process area to vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting, ..., equipment.

Special precautions : No naked lights. No smoking. Avoid breathing dust, fume, gas, mist, vapours, spray.

Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.

Storage - away from ignition. Direct sunlight. : Strong bases. Strong acids. Sources of Heat Sources.

Specific end uses

Specific end use(s) : None.

Exposure Controls/Personal Protection

Personal protection	: Avoid all unnecessary exposure.
• <u>Respiratory protection</u>	: <u>Where exposure through inhalation may occur from use,</u>
	respiratory protection
• <u>Hand protection</u>	: <u>Wear protective gloves.</u>
• <u>Eye protection</u>	: <u>Chemical goggles or safety glasses.</u>
• <u>Others</u>	: <u>When using, do not eat, drink or smoke.</u>

Control parameters

Occupational Exposure Limits	: No data available.
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Physical and Chemical Properties

Information on basic physical and chemical properties Physical state at 20 °C

	: Liquid.
Colour	: Clear Colorless
Odour	: Alcoholic odour
Odour threshold	: No data available.
pH value	: Not Applicable.
Melting point [°C]	: -89 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 399 °C
Flammability (solid, gas)	: Highly flammable liquid and vapour. Flammable.
Flash point [°C]	
Molecular Weight	
: -12 °C	
: 60.10	
Boiling point [°C]	
: 82 °C	
Initial boiling point [°C]	
: N/A	
Final boiling point [°C]	
: N/A	
Evaporation rate	
: 2.83	
Vapour pressure [20°C]	
: 43.2 hPa at 20°C	
Vapour pressure mm/Hg	
: 44 mm Hg @ 25C	
Vapour density	

: 2,1	
Density [g/cm ³]	
: 0,79	
Relative density, gas (air=1)	
: N/A	
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Miscible.
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm ² /s]	: N/A
Other information	
Explosive properties	: N/A
Explosion limits - upper [%]	: 12.70%
Explosion limits - lower [%]	: 2%
Oxidising properties	: No data available

Stability and Reactivity Data

Stability conditions..	: Stable under recommended storage
Instability Temperature	: Not available.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame.
Incompatibility with various substances	: Not available.
Corrosivity	: Not available.
Special Remarks on Reactivity	: Not available.
Special Remarks on Corrosivity	: Not available.
Polymerization	: Will not occur.
Materials to avoid	: Strong acids. Strong bases.

Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.
May release flammable gases.

Toxicological Information

Information on toxicological effects

Acute toxicity	
• Inhalation	: Based on available data, the classification criteria are not met.
• Dermal	: Based on available data, the classification criteria are not met.

- **Ingestion** : Based on available data, the classification criteria are not met.
- Corrosion** : Based on available data, the classification criteria are not met.
- Irritation** : Causes skin irritation.
- Sensitization** : Based on available data, the classification criteria are not met.
- Mutagenicity** : Based on available data, the classification criteria are not met. **Carcinogenicity** : Based on available data, the classification criteria are not met. **Toxic for reproduction** : Based on available data, the classification criteria are not met. **STOT-single exposure** : May cause drowsiness or dizziness.
- STOT-repeated exposure** : Based on available data, the classification criteria are not met.
- Aspiration hazard** : Based on available data, the classification criteria are not met.

Toxicological Data on Ingredients: Not Available.

Ecological Information

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

BOD5 and COD: Not available.

Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation:

Not available.

Persistence – degradability : May cause long-term adverse effects in the environment. Bioaccumulative potential : Not established.

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Environmental precautions : Avoid release to the environment.

Disposal Considerations

Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions: Handle empty containers with care because residual vapours are flammable. Hazardous waste due to toxicity.

Transformation Information

Land transport (ADR-RID)

Proper shipping name	: ISOPROPANOL (ISOPROPYL ALCOHOL)
UN N°	1219
H.I. nr	33
ADR - Class	3
Labelling - Transport	: 3 : Flammable liquid.
ADR - Group	II

Sea transport (IMDG) [English only]

Proper shipping name	: ISOPROPANOL (ISOPROPYL ALCOHOL)
UN N°	1219
IMO-IMDG - Class or division	: 3 : Flammable liquid.

IMO-IMDG - Packing group **II**

Air transport (ICAO-IATA) [English only]

Proper shipping name	: ISOPROPANOL (ISOPROPYL ALCOHOL)
UN N°	1219
IATA - Class or division	: 3 : Flammable liquid.

IATA - Packing group **II**

Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture Safety, health and environmental : Ensure all national/local regulations are observed.

regulations/legislation specific for the substance or mixture

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions. REACH Authorisation - Annex XIV : The components of this product are not subject to authorization. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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