

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

#### 1.1. Product identifier

Product name	: Isopropanol Alcohol
Product code	: ISOP
REACH registered number(s)	: 01-2119457558-25
CAS Number	: 67-63-0
EINECS	: 200-661-7
Index Number	: 2020
Synonyms	: IPA, ISOPROPYL ALCOHOL, PROPAN-2-OL

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

**Relevant identified uses**  
Solvent for industrial use.

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

Signgeer Limited  
Valhalla Business Park, Dobles Lane,  
Holsworthy, Devon, EX22 6HN, UK  
T 0044 1409 259802  
hello@signgeer.com - www.signgeer.com

#### 1.4. Emergency telephone number

Emergency number : 0044 1392 759787 (During office hours) NHS – 111

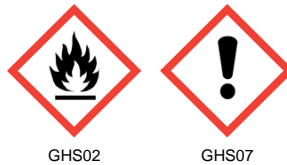
### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification under CLP : STOT SE 3: H336; Eye Irrit. 2: H319; Flam. Liq. 2: H225  
Most important adverse effects : Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

#### 2.2. Label elements

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

Hazard statements (CLP) : H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.

Precautionary statements (CLP) : P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P243: Take action to prevent static discharges.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### 2.3. Other hazards

Other hazards : In use, may form flammable / explosive vapour-air mixture.  
PBT : This product is not identified as a PBT/vPvB substance.

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Chemical identity	: PROPAN-2-OL
CAS number	: 67-63-0
EINECS number	: 200-661-7
REACH registered number(s)	: 01-2119457558-25

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after skin contact	: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
First-aid measures after eye contact	: Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues
First-aid measures after ingestion	: Wash out mouth with water. If patient is conscious, give water to drink. If patient feels unwell, seek medical advice. DO NOT INDUCE VOMITING. Get medical attention immediately.
First-aid measures after inhalation	: Remove casualty from exposure ensuring one's own safety whilst doing so. Seek medical attention if necessary.

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

Skin contact	: There may be irritation and redness at the site of contact.
Eye contact	: There may be irritation and redness. The eyes may water profusely.
Ingestion	: There may be soreness and redness of the mouth and throat.
Inhalation	: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
Delayed / immediate effects	: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment	: Eye bathing equipment should be available on the premises.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.
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#### 5.2. Special hazards arising from the substance or mixture

Exposure hazards	: Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.
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#### 5.3. Advice for firefighters

Advice for fire-fighters	: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
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### SECTION 6: Accidental release measures

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

Personal precautions	: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.
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#### 6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding.
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### 6.3. Methods and material for containment and cleaning up

Clean up procedures : Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

### 6.4. Reference to other sections

Refer to section 8 of SDS.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling requirements : Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

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

Storage conditions : Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

### 7.3. Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Workplace exposure limits:

State	Workplace exposure limits:		Respirable dust:	
	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	999 mg/m <sup>3</sup>	1250 mg/m <sup>3</sup>	-	-

Hazardous ingredients:

PROPAN-2-OL

Workplace exposure limits:

State	Workplace exposure limits:		Respirable dust:	
	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	999 mg/m <sup>3</sup>	1250 mg/m <sup>3</sup>	-	-

**DNEL / PNEC**

No data available.

### 8.2. Exposure controls

Engineering measures : Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: : Required, if exposure limit is exceeded. In Case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self- contained respiratory protective device. Gas/vapour filter, type A: organic vapours (EN141).

Hand protection : Protective gloves should be replaced at first signs of wear. butyl rubber (BR), or Fluorinated Rubber gloves Glove thickness 0.5mm Breakthrough time of the glove material > 8 hours.

Eye protection : Safety goggles. Safety glasses. Ensure eye bath is to hand.

Skin protection : Solvent resistant protective clothing.

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### SECTION 9: Physical and chemical properties

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

State:	Liquid
Colour:	Colourless
Odour:	Alcoholic
Evaporation rate:	Moderate
Oxidising:	Non-oxidising (by EC criteria)
Solubility in water:	Soluble
Also soluble in:	Most organic solvents
Viscosity:	Non-viscous
Boiling point/range °C:	78-82 °C
Melting point/range °C:	-88 °C
Flammability limits %:	Lower: 2.5%      Upper: 12.7%
Flash point °C:	12°C
Part.coeff. n-octanol/water:	No data available.
Autoflammability °C:	>399
Vapour pressure:	4.16kPa@20c
Relative density:	0.786
pH:	Neutral
VOC g/l:	No data available

#### 9.2. Other information

No data available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under recommended transport or storage conditions.

#### 10.2. Chemical stability

Stable under normal conditions. Stable at room temperature.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4. Conditions to avoid

Heat. Hot surfaces. Sources of ignition. Flames.

#### 10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

#### 10.6. Hazardous decomposition products

In combustion emits toxic fumes.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Hazardous ingredients:

PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

Relevant hazards for product:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated

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### Symptoms / routes of exposure

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity values : No data available.

### 12.2. Persistence and degradability

Biodegradable

### 12.3. Bioaccumulative potential

No bioaccumulative potential.

### 12.4. Mobility in soil

Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

Negligible ecotoxicity.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Disposal operations : Transfer to a suitable container and arrange for collection by specialised disposal company.  
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## SECTION 14: Transport information

UN Number:	1219
UN Proper shipping name:	ISOPROPANOL (ISOPROPYL ALCOHOL) (PROPAN-2-OL)
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No.
Marine pollutant:	No.
Special precautions for user:	No special precautions.
Tunnel code:	D/E
Transport category:	2

## SECTION 15: Regulatory information

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

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## SECTION 16: Other information

Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830. * indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and s.3:	H225: Highly flammable liquid and vapour. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.