

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

1.1. Product identifier

Product name: ISOPROPANOL

REACH registered number(s): 01-2119457558-25

CAS number: 67-63-0

EINECS number: 200-661-7

Index number: 603-117-00-0

Synonyms: * IPA

ISOPROPYL ALCOHOL

PROPAN-2-OL

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

Use of substance / mixture: * Organic Solvent. Cleaning Agent. Cosmetics.

1.3. Details of the supplier of the safety data sheet

Company name: Jem Products

Unit 20 Sycamore Trading Estate

Squires Gate Lane

Blackpool

FY4 3RL

United Kingdom

1.4. Emergency telephone number

Emergency tel: NHS 111 or 999

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

Classification under CHIP: F: R11; Xi: R36; -: R67

Most important adverse effects: Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

2.2. Label elements

Label elements under CLP:

Hazard statements: * H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

[cont...]

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Signal words: * Danger

Hazard pictograms: * GHS02: Flame

GHS07: Exclamation mark



Precautionary statements: * P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314: Get medical advice/attention if you feel unwell.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: PROPAN-2-OL

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. If irritation develops or persists seek medical attention.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: * Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Move to fresh air in case of accidental inhalation of vapours. If symptoms develop seek medical attention.

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

Skin contact: * There may be irritation and redness at the site of contact. Defatting, drying and cracking of the skin may occur.

Eye contact: * There may be irritation and redness. There may be severe pain. The eyes may water profusely. Corneal burns may occur. Risk of serious damage to eyes.

Ingestion: * Nausea and stomach pain may occur. There may be vomiting and diarrhoea. There may be confusion, aggressive behaviour, slurred speech and staggering walk. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting. Convulsions may occur.

Inhalation: * There may be irritation of the throat with a feeling of tightness in the chest. Prolonged exposure or exposure to high concentrations may cause adverse effects to the CNS, nausea, vomiting, headache and narcosis. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

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.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: * Water spray. Water fog. Carbon dioxide. Alcohol resistant foam. Dry chemical powder. Use water spray to cool containers. Do not use water in a jet.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Highly flammable. Vapour may travel considerable distance to source of ignition and flash back. Forms explosive air-vapour mixture. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear suitable protective clothing. Eliminate all sources of ignition. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Remove all incompatible materials as outlined in section 10 of SDS.

6.2. Environmental precautions

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. Wash the spillage site with large amounts of water. Do not use combustible absorbant material. Do not allow contact with combustible materials.

6.4. Reference to other sections

Reference to other sections: * Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: * Wear suitable protective clothing. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Avoid contact with the material and breathing its vapours. Avoid direct contact with the substance. Isolate all sources of ignition. Smoking is forbidden.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: * Store in cool, well ventilated area. Keep away from sources of ignition. Keep away from heat, sparks and open flames. Keep container tightly closed. Ensure lighting and electrical equipment are not a source of ignition. Avoid incompatible materials and conditions - see section 10 of SDS.

Suitable packaging: * Steel drums. Some rubbers and plastics are attacked by the product.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA:	15 min. STEL:	8 hour TWA:	15 min. STEL:
UK	999 mg/m ³ (400 ppm)	1250 mg/m ³ (500 ppm)	-	-

Hazardous ingredients:

PROPAN-2-OL

Workplace exposure limits:

Respirable dust

State	8 hour TWA:	15 min. STEL:	8 hour TWA:	15 min. STEL:
UK	999 mg/m ³	1250 mg/m ³	-	-

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.

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Respiratory protection: * Wear suitable respiratory protection if exposure levels approach or exceed the stated exposure levels. Gas/vapour filter, type A: organic vapours (EN141).

Hand protection: * Gloves (solvent-resistant).

Eye protection: Safety goggles. Face-shield. Ensure eye bath is to hand.

Skin protection: * Protective clothing. Boots. Ensure safety shower is to hand.

Environmental: * No special requirement.

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: 83

Melting point/range°C: - 88.5

Flammability limits %: lower: 2

upper: 12

Flash point°C: 12

Part.coeff. n-octanol/water: * 0.05

Autoflammability°C: * > 350

Vapour pressure: * 4.2 kPa @ 20°C

Relative density: * 0.79 g/ml

pH: *

VOC g/l: * 100 %

9.2. Other information

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

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

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames. Sparks.

10.5. Incompatible materials

Materials to avoid: * Strong oxidising agents. Acids. Aldehydes. Amides.

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10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
IHL	RAT	4H LC50	> 20	mg/l
ORL	RAT	LD50	> 2000	mg/kg
SKN	RBT	LD50	> 2000	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	-	Based on test data

Symptoms / routes of exposure

Skin contact: * There may be irritation and redness at the site of contact. Defatting, drying and cracking of the skin may occur.

Eye contact: * There may be irritation and redness. There may be severe pain. The eyes may water profusely. Corneal burns may occur. Risk of serious damage to eyes.

Ingestion: * Nausea and stomach pain may occur. There may be vomiting and diarrhoea. There may be confusion, aggressive behaviour, slurred speech and staggering walk. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting. Convulsions may occur.

Inhalation: * There may be irritation of the throat with a feeling of tightness in the chest. Prolonged exposure or exposure to high concentrations may cause adverse effects to the CNS, nausea, vomiting, headache and narcosis. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Delayed / immediate effects: * Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
Daphnia magna	48H EC50	> 100	mg/l

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FISH	96H LC50	> 100	mg/l
Scenedesmus Subspicatus	72H ErC50	> 100	mg/l

12.2. Persistence and degradability

Persistence and degradability: The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Low potential to bioaccumulate.

12.4. Mobility in soil

Mobility: Soluble in water. Volatile.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: * Not expected to cause significant environmental impact. Do not allow to enter watercourses or soils. Spillage in sewers or waterways must be avoided.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: * Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Contaminated containers must not be treated as household waste. Where practical, containers and packaging should be recycled by a licenced contactor.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1219

14.2. UN proper shipping name

Shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

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14.6. Special precautions for user

Special precautions: 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

Chemical safety assessment: A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

R11: Highly flammable.

R36: Irritating to eyes.

R67: Vapours may cause drowsiness and 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.