



SAFETY DATA SHEET

ISOPROPANOL

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME Isopropanol
 CHEMICAL NAME Propan-2-ol
 PRODUCT NO. ISOPBUL
 APPLICATION Industrial solvent.
 SUPPLIER ..
 SHL Manufacturing Limited
 Unit 1B Old Street
 Wimborne
 BH21 4DB
 info@shluk.biz

EMERGENCY TELEPHONE 01258 858130

2 HAZARDS IDENTIFICATION

CLASSIFICATION (1999/45) Xi;R36. F;R11. R67.

CLASSIFICATION (EC 1272/2008)

Physical	Flam. Liq. 2 - H225
Health	Eye Irrit. 2 - H319;STOT Single 3 - H336
Environmental	Not classified.

LABEL IN ACCORDANCE WITH (EC) NO. 1272/2008



SIGNAL WORD Danger

HAZARD STATEMENTS

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

PRECAUTIONARY STATEMENTS

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260e	Do not breathe vapours.
P280a	Wear protective gloves.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370	In case of fire: Use alcohol resistant foam or dry powder for extinction.
P501D	Empty containers may contain residual product and vapours. Do not cut or weld on or near empty containers. Disposal should only be by means of a licensed waste disposal contractor.

SUPPLEMENTARY PRECAUTIONARY STATEMENTS

P264a	Wash skin thoroughly after handling.
P303/361/353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P304/340

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

P403/233/235

Store in a well-ventilated place, in original container. Keep container tightly closed, Keep cool.

OTHER HAZARDS

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

PROPAN-2-OL		<=100%
CAS-No.: 67-63-0	EC No.: 200-661-7	
CLASSIFICATION (EC 1272/2008)	CLASSIFICATION (67/548)	
Flam. Liq. 2 - H225	F;R11	
Eye Irrit. 2 - H319	Xi;R36	
STOT Single 3 - H336	R67	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16

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4 FIRST-AID MEASURES

GENERAL INFORMATION

Remove affected person from source of exposure. Provide fresh air, first-aid, warmth and rest.

Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

INHALATION

If unconscious place patient on their side in the recovery position and ensure they are breathing. Clean nose and mouth with water.

Artificial respiration may be administered by suitably qualified first-aiders.

Get medical attention if symptoms persist.

INGESTION

If swallowed do NOT induce vomiting.

Never give anything by mouth to an unconscious person. Rinse mouth thoroughly and seek medical attention if discomfort persists. Keep patient under observation.

SKIN CONTACT

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and running water. Take especial care to clean folds, crevices, creases and groin.

Get medical attention if irritation persists or develops.

Launder clothing and clean shoes thoroughly before re-use.

EYE CONTACT

Check for contact lenses which must be removed from the eyes before rinsing.

Promptly rinse eyes with plenty of clean water while lifting the eyelids.

Continue to rinse for at least 15 minutes. Continue until the eyes are free of all traces of contamination.

Get medical attention if any discomfort or irritation persists.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use CO₂, dry powder, foam, or water fog, mist or spray, Do not use high pressure water jet as this may spread burning material.

UNUSUAL FIRE & EXPLOSION HAZARDS

Fire causes formation of toxic gases.

SPECIFIC HAZARDS

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

PROTECTIVE MEASURES IN FIRE

Wear self-contained breathing apparatus and full protective clothing. Keep all unnecessary people away. Fire water run-off must not be allowed to contaminate ground or enter drains, sewers or water courses. Provide bunding against fire water run-off.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Ventilate to dispel residual vapour. Clean-up personnel should use respiratory protection, gloves, goggles and protective clothing and footwear. (see section 8)

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ENVIRONMENTAL PRECAUTIONS

Do not allow spilled material to enter drains or water courses.

Cover all drains and sewers. Avoid spreading spilled material. Contain spillages with sand, earth or suitable absorbent material. Prevent further spillage if safe to do so.

In the event of contamination of watercourses or sewers advise the Environment Agency, fire brigade and police.

SPILL CLEAN UP METHODS

Absorb in vermiculite, sand, diatomaceous earth or other absorbent inert material. Place into clearly labelled container for recovery or disposal (see section 13). Rinse site with copious amounts of water, which should not be allowed into drains, sewers or water courses.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Eye wash facilities and emergency shower must be available when handling this product. Use only in well ventilated areas.

Avoid spilling, skin and eye contact. Do not breathe vapour or fumes.

Use suitable protective clothing. (see section 8). Wash thoroughly after handling.

STORAGE PRECAUTIONS

Keep away from all possible sources of ignition.

Store in tightly closed containers in segregated, cool, dry, ventilated storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
PROPAN-2-OL	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3	

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROCESS CONDITIONS

Provide eyewash station.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

If ventilation is insufficient suitable respiratory protection must be provided.

Seek recommendations and advice from equipment manufacturer or supplier.

HAND PROTECTION

Wear suitable protective gloves conforming to EN 374. Seek recommendations from manufacturer or supplier. After using gloves the hands should be washed and dried thoroughly and a suitable moisturiser applied.

EYE PROTECTION

Contact lenses should not be worn when working with this chemical! Wear approved safety goggles.

OTHER PROTECTION

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station and safety shower. Minimise all forms of skin contact. Overalls and footwear with oil and chemical resistant soles should be worn.

Launder overalls and undergarments regularly.

HYGIENE MEASURES

Wash promptly if skin becomes contaminated. Promptly remove non-impervious clothing that becomes contaminated.

When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Alcoholic		
SOLUBILITY	Completely miscible with water.		
BOILING POINT (°C)	82-83°C	MELTING POINT (°C)	-90°C
RELATIVE DENSITY	0.785 @ 20°C	VAPOUR DENSITY (air=1)	2.1
VAPOUR PRESSURE	43.3 hPa 20°C	VISCOSITY	3 mPas 20°C
FLASH POINT (°C)	12°C CC (Closed cup).	AUTO IGNITION	399°C
		TEMPERATURE (°C)	

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FLAMMABILITY LIMIT - 2
LOWER(%)
PARTITION COEFFICIENT +0.05
(N-Octanol/Water)

FLAMMABILITY LIMIT - 12
UPPER(%)

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal conditions of storage and use. See section 7.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Strong oxidising substances. Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 4700-5800 mg/kg (oral rat)

TOXIC DOSE 2 - LD 50 13000 mg/kg (dermal-rbt)

TOXIC CONC. - LC 50 19000 ppm/8hr (inh-rat)

INHALATION

In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

INGESTION

Gastrointestinal symptoms, including upset stomach.

SKIN CONTACT

Repeated exposure may cause skin dryness or cracking. Absorption of organic solvents through the skin can cause the same effects as inhalation.

EYE CONTACT

Irritating to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

This preparation is readily biodegradable and is not expected to be hazardous to the environment.

LC 50, 96 Hrs, FISH mg/l 9640-10400

EC 50, 48 Hrs, DAPHNIA, mg/l 7550-13299

IC 50, 72 Hrs, ALGAE, mg/l >1000

BIOACCUMULATION

Will not bio-accumulate.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Empty containers may contain residual flammable vapours and product residue. Keep away from sparks, heat and sources of ignition. Labels should not be removed. Product is hazardous waste. Do not allow into drains, sewers or water courses. Disposal must be by means of a licensed waste contractor.

14 TRANSPORT INFORMATION



UK ROAD CLASS 3

PROPER SHIPPING NAME ISOPROPANOL (ISOPROPYL ALCOHOL)

Isopropanol

UN NO. ROAD	1219	UK ROAD PACK GR.	II
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	II	TUNNEL RESTRICTION CODE	(D/E)
HAZARD No. (ADR)	33	ADR LABEL NO.	3
HAZCHEM CODE	•2YE	CEFIC TEC(R) NO.	30GF1-I+II
RID CLASS NO.	3	RID PACK GROUP	II
UN NO. SEA	1219	IMDG CLASS	3
IMDG PAGE NO.	3	IMDG PACK GR.	II
EMS	F-E, S-D	MARINE POLLUTANT	No.
UN NO. AIR	1219	AIR CLASS	3
AIR PACK GR.	II		

15 REGULATORY INFORMATION

EU DIRECTIVES
Regulation (EC) No 1272/2008: CLP (Classification, labelling and packaging of substances and mixtures).
STATUTORY INSTRUMENTS
Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 SI No 716. (CHIP4).
Control of Substances Hazardous to Health Regulations (as amended). (COSHH)
Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007. (CDG 2009)
Environmental Protection (Duty of Care) Regulations.
GUIDANCE NOTES
Workplace Exposure Limits EH40.
Introduction to Local Exhaust Ventilation HS(G)37.
CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION COMMENTS
GHS information added.

RISK PHRASES IN FULL
R11 Highly flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

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

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.