

## MATERIAL SAFETY DATA SHEET - ISOPROPANOL

Revision date: June 2018, Version 2

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

**PRODUCT NAME:** Isopropanol  
**CHEMICAL NAME:** Propan-2-ol  
**PRODUCT NO.** ISOPBUL  
**APPLICATION** Industrial solvent.  
**SUPPLIER:** Industrial Adhesive Solutions Ltd  
Unit 10, Crystal Drive  
Sandwell Business Park  
Smethwick, B66 1QG  
Tel: 0121 556 9900  
[enquiry@indasol.co.uk](mailto:enquiry@indasol.co.uk)  
[www.indasol.co.uk](http://www.indasol.co.uk)

**EMERGENCY TEL: 0121 556 9900 Monday – Friday 8.30am – 4.30pm**

### 2 HAZARDS IDENTIFICATION:

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

CLASSIFICATION (EC 1272/2008)

Physical

Health

Environmental

Flam. Liq. 2 – H225

Eye Irrit. 2 – H319; STOT Single 3 – H336

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.

H36

May cause drowsiness or dizziness.

PRECAUTIONRY 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.

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.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<b>PROPAN-2-OL</b>		<b>&gt;98%</b>
<b>CAS-No.: 67-63-0</b>	<b>EC No.: 200-661-7</b>	
<b>CLASSIFICATION (EC 1272/2008)</b>	<b>CLASSIFICATION (67/548)</b>	
<b>Flam. Liq. 2 – H225</b>	<b>F;R11</b>	
<b>Eye Irrit. 2 – H319</b>	<b>Xi; R36</b>	
<b>STOT Single 3 – H36</b>	<b>R67</b>	

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

### 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 CO<sub>2</sub>, 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 MEASURE 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).

### 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 Environmental 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	999mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	

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

<b>APPEARANCE</b>	Liquid		
<b>COLOUR</b>	Colourless		
<b>ODOUR</b>	Alcoholic		
<b>SOLUBILITY</b>	Completely miscible with water.		
<b>BOILING POINT (°C)</b>	82-83°C	<b>MELTING POINT (°C)</b>	-90°C
<b>RELATIVE DENSITY</b>	0.785 @ 20°C	<b>VAPOUR DENSITY (air=1)</b>	2.1
<b>VAPOUR PRESSURE</b>	43.3 h Pa 20°C	<b>VISCOSITY</b>	3 mPas 20°C
<b>FLASH POINT (°C)</b>	12°C CC (Closed cup)	<b>AUTO IGNITION TEMPERATURE (°C)</b>	399°C
<b>FLAMMABILITY LIMIT LOWER (%)</b>	2	<b>FLAMMABILITY LIMIT UPPER (%)</b>	12
<b>PARTITION COEFFICIENT+0/05 (N-Octanol/Water)</b>			

## 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

<b>TOXIC DOSE 1 – LD 50</b>	<b>4700-5800 mg/kg (oral rat)</b>
<b>TOXIC DOSE 2 – LD 50</b>	<b>13000 mg/kg (dermal-rbt)</b>
<b>TOXIC CONC. – LC 50</b>	<b>19000 ppm/8hr (inh-rat)</b>

### INHALATION

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

### INGESTION

Gastrointestianl symptoms, including upset stomach.

### SKIN CONTACT

Repeated expoure 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)		
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	CEPIC TEC(R) NO.	30GF1-1+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:** These suggestions and data are based on information we believe to be reliable and accurate, but no guarantee of their accuracy is made. Industrial Adhesive Solutions Limited shall not be liable for any damage, loss or injury, direct or consequential arising out of the use or the inability to use the product. In every case, we urge and recommend that purchasers, before using any product in full scale production, make their own tests to determine whether the product is of satisfactory quality and suitability for their operations, and the user assumes all risk and liability whatsoever, in connection therewith. Please contact us for further assistance and information.