

# SAFETY DATA SHEET

## ISOPROPYL ALCOHOL

Infosafe No.: HXFSX  
ISSUED Date : 28/02/2022  
ISSUED by: RECOCHEM INC.

### 1. Identification

**GHS Product Identifier**

ISOPROPYL ALCOHOL

**Product Code**

16235

**Company name**

RECOCHEM INC. (ABN 69 010 485 999)

**Address**

1809 Lytton Road Lytton  
QLD 4178 AUSTRALIA

**Telephone/Fax Number**

Tel: (07) 3308 5200

Fax: (07) 3308 5201

**Emergency phone number**

Business Hours (07) 3308 5200, After Hours 1300 131 001, Poisons Information: Australia: 13 11 26 New Zealand: 0800 764 766

**Recommended use of the chemical and restrictions on use**

Solvent, cleaner

**Other Names**

Name
SEC-PROPYL ALCOHOL
2-PROPANOL
ISOPROPANOL
IPA

### 2. Hazard Identification

**GHS classification of the substance/mixture**

Flammable Liquids: Category 2

Eye Damage/Irritation: Category 2A

STOT Single Exposure: Category 3 (narcotic)

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Precautionary statement – General**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

**Pictogram (s)**

Flame, Exclamation mark

**Precautionary statement – Prevention**

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement – Response**

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P370+P378 In case of fire: Use foam/water spray/fog for extinction.

**Precautionary statement – Storage**

P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.

**Precautionary statement – Disposal**

P501 Dispose of contents/container in accordance with local regulations.

**Other Information**

Hazardous chemical according to classification by Safe Work Australia

Dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

**3. Composition/information on ingredients****Ingredients**

Name	CAS	Proportion
Isopropyl alcohol	67-63-0	>99 %

**4. First-aid measures****Inhalation**

Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility. Remove contaminated clothing.

**Ingestion**

If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

### Skin

If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. If irritation occurs seek medical advice.

### Eye contact

If in eyes, hold eyes open, flood with water for at least 15 minutes. If symptoms persist, transport to nearest medical facility for additional treatment.

### Advice to Doctor

Treat symptomatically.

### Most important symptoms/effects, acute and delayed

Symptoms caused by exposure:

Inhalation: Breathing of high vapour concentrations may cause central nervous system depression resulting in headaches, dizziness, nausea, loss of coordination, impaired judgement; continued inhalation may result in unconsciousness and/or death.

Skin: Not expected to be irritating to skin.

Eye: May include burning sensation, redness, swelling and/or blurred vision.

Ingestion: May include nausea, vomiting and central nervous system depression (as for inhalation).

## 5. Fire-fighting measures

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### Suitable Extinguishing Media

Alcohol stable foam, water spray or fog. Dry chemical powder, carbon dioxide may be used for small fires only.

### Unsuitable Extinguishing Media

Do not use water in a jet.

### Special Protective Equipment for fire fighters

Wear full protective clothing and self-contained breathing apparatus.

### Specific Hazards Arising From The Chemical

Highly flammable liquid. Carbon monoxide and/or carbon dioxide may be evolved. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

### Hazchem Code

·2YE

### Decomposition Temperature

Data not available

## 6. Accidental release measures

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### Emergency Procedures

Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment. Spills can be converted to non-flammable mixtures by dilution with water.

### Clean-up Methods - Small Spillages

For small spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

### Clean-up Methods - Large Spillages

For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

### Environmental Precautions

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.

## 7. Handling and storage

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### Precautions for Safe Handling

Highly flammable product. Avoid breathing vapours. Handle and open containers with care in a well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment.

### Conditions for safe storage, including any incompatibilities

Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.

## 8. Exposure controls/personal protection

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### Occupational exposure limit values

Exposure control measures:

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia - Isopropyl Alcohol: 983mg/m<sup>3</sup> (400ppm) TWA (8hr), 1230mg/m<sup>3</sup> (500ppm) STEL

### Biological Limit Values

No biological limit allocated.

### Appropriate engineering controls

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

### Respiratory Protection

If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.

### Eye Protection

Wear safety goggles.

### Thermal Hazards

Not applicable.

### Body Protection

Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.

## 9. Physical and chemical properties

Properties	Description	Properties	Description
Form	Liquid	Appearance	Colourless clear liquid
Odour	Alcoholic	Decomposition Temperature	Data not available
Boiling Point	82°C - 83°C	Solubility in Water	Miscible with water
pH	Data not available	Vapour Pressure	4.1 mmHg @ 20°C
Vapour Density (Air=1)	2	Evaporation Rate	Data not available (Butyl acetate = 1)
Odour Threshold	Data not available	Partition Coefficient: n-octanol/water	Data not available
Density	0.78 - 0.79 g/ml @ 15°C	Flash Point	12°C (Abel)
Flammability	Highly flammable	Auto-Ignition Temperature	425 °C
Flammable Limits - Lower	2.0%	Flammable Limits - Upper	12.0%
Initial boiling point and boiling range	82 - 83 °C	Kinematic Viscosity	Data not available @ 20°C
Melting/Freezing Point	-88 °C		

## 10. Stability and reactivity

### Reactivity

Stable under normal conditions of use.

### Chemical Stability

Stable under normal conditions of use.

### Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources.

### Incompatible materials

Strong oxidising agents, strong acids.

### Hazardous Decomposition Products

Burning can produce carbon monoxide and/or carbon dioxide.

### Possibility of hazardous reactions

Stable under normal conditions of use.

## 11. Toxicological Information

### Acute Toxicity - Oral

Expected to be of low toxicity -

LD50 Oral (rat) > 2000mg/kg

### Acute Toxicity - Dermal

Low toxicity: LD50 Dermal (rabbit) > 2000mg/kg.

### Skin corrosion/irritation

Not irritating to skin. Prolonged contact may cause defatting of skin which can lead to dermatitis.

### Serious eye damage/irritation

Irritating to eyes.

### Respiratory sensitisation

Not expected to be a sensitizer.

**Skin Sensitisation**

Not expected to be a sensitiser.

**Germ cell mutagenicity**

Not expected to be mutagenic.

**Carcinogenicity**

Not expected to be carcinogenic.

**Reproductive Toxicity**

Not expected to impair fertility.

**STOT-single exposure**

Low toxicity: LD50 Inhalation (rat) > 20mg/l (8 hours).

Inhalation of vapours or mists may cause drowsiness or dizziness and irritation to the respiratory system. High concentrations may cause central nervous system depression.

**STOT-repeated exposure**

No data available.

**Aspiration Hazard**

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

## 12. Ecological information

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**Ecotoxicity**

Aquatic invertebrate - Low toxicity: LC/EC/IC50 > 100mg/l

Microorganisms - Low toxicity: LC/EC/IC50 > 100mg/l

Chronic toxicity:

Fish - Data not available

Aquatic invertebrate - Data not available

Algae - Data not available

Microorganisms - Data not available

**Persistence and degradability**

Biodegradable, oxidises rapidly by photochemical reactions in air.

**Mobility**

Miscible with water, if product enters soil it will be highly mobile and may contaminate groundwater.

**Bioaccumulative Potential**

Not expected to bioaccumulate significantly.

**Other Adverse Effects**

Data not available.

**Acute Toxicity - Fish**

Low toxicity: LC/EC/IC50 > 100mg/l

**Acute Toxicity - Algae**

Expected to have low toxicity: LC/EC/IC50 > 100mg/l

## 13. Disposal considerations

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**Disposal considerations**

Ensure waste disposal conforms to local waste disposal regulations.

## 14. Transport information

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**U.N. Number**

1219

**UN proper shipping name**

ISOPROPANOL

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**Transport hazard class(es)**

3

**Packing Group**

II

**Hazchem Code**

·2YE

**IERG Number**

16

**UN Number (Air Transport, ICAO)**

1219

**IATA/ICAO Proper Shipping Name**

ISOPROPANOL

**IATA/ICAO Hazard Class**

3

**IATA/ICAO Packing Group**

II

**IMDG UN No**

1219

**IMDG Proper Shipping Name**

ISOPROPANOL

**IMDG Hazard Class**

3

**IMDG Pack. Group**

II

### 15. Regulatory information

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**Regulatory information**

Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76): 16

**Poisons Schedule**

Not Scheduled

**Australia (AICS)**

Listed

### 16. Other Information

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**User Codes**

User Title Label	User Codes
Wis Numbers	01148558
Wis Numbers	01148575
Wis Numbers	03613748

**Revisions Highlighted**

Revision number: 8

Changes in this revision: Reviewed due to expiration

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### Other Information

ISSUE: 8

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