



# SAFETY DATA SHEET

## ISOPROPYL ALCOHOL

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Identifier</b>	ISOPROPYL ALCOHOL
<b>Other Names</b>	sec-Propyl Alcohol, 2-Propanol, Isopropanol, IPA
<b>Product Code</b>	21-SYN9, 21-SYN-9
<b>Product Use</b>	Solvent, cleaner
<b>Company</b>	NFK Glazing & Industrial Supplies
<b>Contact phone</b>	+61 7 3343 3377
<b>Emergency phone Poisons Information Centre:</b>	1800 033 111, 13 11 26 from anywhere in Australia

## 2. HAZARDS IDENTIFICATION

### 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

**Signal word: DANGER**

### GHS Classification

Flammable Liquids, Category 2

### Hazard Statements

H225 Highly flammable liquid and vapour

### GHS Classification

Serious Eye Damage/Irritation, Category 2A

Specific Target Organ Toxicity (Single exposure), Category 3

### Hazard Statements

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness



## PRECAUTIONARY STATEMENTS

### 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

### PREVENTATIVE

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.

No smoking


P233 Keep container tightly closed

P240 Ground and bond container and receiving equipment

P241 Use explosion-proof electrical/ventilation/lighting equipment

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- P242 Use non-sparking tools
- P243 Take action to prevent static discharge
- P261 Avoid breathing mist/vapours/spray
- P264 Wash thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves/eye protection/face protection

#### RESPONSE

- P303 + P361 + P353 IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower
- P304 + P340 IF INHALED: Remove person to fresh air and keep 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

#### 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

#### DISPOSAL


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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS No	PROPORTION, %
Isopropyl Alcohol	67-63-0	> 99

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## 4. FIRST AID MEASURES

### DESCRIPTION OF NECESSARY 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.

**Skin Contact:**

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.

**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.

### 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). Medical attention and special treatment Treat symptomatically.

### MEDICAL ATTENTION AND SPECIAL TREATMENT

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### Suitable extinguishing equipment

Alcohol stable foam, water spray or fog. Dry chemical powder, carbon dioxide may be used for small fires only. Do not use water in a jet.

### 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.

### Special protective equipment and precautions for fire fighters

Wear full protective clothing and self-contained breathing apparatus.

**Hazchem code:** 2YE.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and 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.

### 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.

**Methods and materials for containment and cleaning up**

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. 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.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Highly flammable product. Avoid breathing vapours. Handle and open containers with care in a wellventilated 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 AND PERSONAL PROTECTION

**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 monitoring**

No biological limit allocated.

**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.

**Individual protection measures****Eye and face protection:**

Wear safety goggles.

**Skin protection:**

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

**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.

**Thermal hazards:**

Not applicable.

## 9. PHYSICAL AND CHEMICAL PROPERTIES (1.1)

<b>Appearance</b>	Colourless clear liquid
<b>Odour</b>	Alcoholic
<b>Odour threshold (ppm): Data not available</b>	Data not available
<b>pH</b>	Data not available
<b>Melting point/freezing point (°C)</b>	-88
<b>Initial boiling point and boiling range (°C)</b>	82 - 83

## PHYSICAL AND CHEMICAL PROPERTIES (1.2)

Flash point (°C)	12 (Abel)
Evaporation rate (Butyl acetate = 1)	Data not available
Flammability	Highly flammable
Upper/lower flammability or explosive limits (%)	2.0 - 12.0
Vapour pressure (mmHg @ 20°C)	4.1
Vapour density (air = 1)	2
Density (g/ml @ 15°C)	0.78 - 0.79
Solubility (kg/m <sup>3</sup> )	Miscible with water
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature (°C)	425
Decomposition temperature (°C)	Data not available
Kinematic viscosity (mm <sup>2</sup> /s @ 20°C)	Data not available

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under normal conditions of use.

**Chemical stability:** Stable under normal conditions of use.

**Possibility of hazardous reactions:** 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.



## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Expected to be of low toxicity - LD50 Oral (rat) > 2000mg/kg

**Skin corrosion/irritation:**

Low toxicity: LD50 Dermal (rabbit) > 2000mg/kg. Not irritating to skin. Prolonged contact may cause defatting of skin which can lead to dermatitis.

**Serious eye damage/irritation:**

Irritating to eyes.

**Respiratory or 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.

**Specific Target Organ Toxicity (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.

**Specific Target Organ Toxicity (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

### ECOTOXICITY

#### Acute toxicity:

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

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

Algae – Expected to have 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.

#### Bioaccumulative potential

Not expected to bioaccumulate significantly.

#### Mobility in soil

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

#### Other adverse effects


Data not available

## 13. DISPOSAL CONSIDERATIONS

Ensure waste disposal conforms to local waste disposal regulations.

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## 14. TRANSPORT INFORMATION

<b>UN Number</b>	1219
<b>EmS Code</b>	F-E, S-D
<b>Proper shipping name</b>	Isopropanol
<b>Australian Dangerous Goods class</b>	3
<b>Australian Dangerous Goods packing group</b>	II
<b>Hazchem code</b>	2YE

## 15. REGULATORY INFORMATION

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:** Not scheduled

**Australian Inventory of Chemical Substances (AICS):** Listed

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

## 16. OTHER INFORMATION

**Date of preparation:** 28/02/2022

**Revision number:** 8

**Changes in this revision:** Reviewed due to expiration

This SDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. NFK Glazing & Industrial Supplies cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult

the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document. If clarification or further information is needed, the user should contact NFK Glazing & Industrial Supplies.