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VERSION NO. : 1

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## Safety Data Sheet

### 1. Identification Of The Material & Supplier

**Product Name :** Iso Propyl Alcohol

**Other Names(s) :** 2-Propanol; Isopropanol

**Chemical Formula :** 61287

**Use or Description :** Industrial Solvent.

**Suppliers Name :** Hi-Tec Ink

**Street Address :** Unit 4 / 231 Annex Road , Christchurch 8053, New Zealand.

**Telephone :** +64 3 366 0100

**Facsimile :**

**Emergency Telephone :** National Poisons & Hazardous Chemicals  
Information Centre :  
NZ Emergency Services :  
Geoffrey Blakey-Scholes :

0800 POISON (0800 764 766)  
Dial 111 (if in doubt)  
Bus +64 3 666-0100  
Mobile 021 312 676

### 2. Hazards Identification

**Hazard Classification:**

3.1B - Highly Flammable Liquid and vapour.  
6.1E (Oral) - May be harmful if swallowed.  
6.3B - May cause mild skin irritation.  
6.4A - Substance that causes serious eye irritation.

**Hazard statement codes:**

H225 Highly Flammable liquid and vapour.  
H303 Harmful if swallowed.  
H316 Causes mild skin irritation.  
H319 Causes serious eye irritation.

**Precautionary statement codes - prevention:**

P102 Keep out of reach of children.  
P103 Read label before use.  
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.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement codes - Response**

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

P303+P361+P353 IF ON SKIN: Remove / Take off all contaminated clothing. Rinse skin with water.

P332 + P313 If skin irritation occurs: Get medical advice / attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use foam, carbon dioxide or dry chemical.

**Precautionary statement codes - Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.

**Precautionary statement codes - Disposal:**

P501 Disposal of this substance must be in accordance with the Hazardous Substances (Disposal) Regulations 2001 with reference to all Council regulations. This may also include any method of disposal that must be avoided.

### 3. Composition / Information On Ingredients

Potentially Hazardous Ingredients	% by weight (approx)	TLV (TWA)		STEL (TWA)		Note CAS No.
		mg/m3	ppm	mg/m3	ppm	
Iso Propanol	100	400	983	500	1230	67-63-0

### 4. First Aid Measures

<b>Inhalation</b>	Remove affected person from further exposure and keep warm and rested. If unconsciousness occurs seek immediate medical assistance. Use mouth to mouth resuscitation if breathing has stopped.
<b>Skin Contact</b>	Remove contaminated clothing and wash contact areas with plenty of water for at least 15 minutes. Get medical attention if symptoms persist.
<b>Eye Contact</b>	Flush affected eye thoroughly with water for at least 15 minutes. remove contact lenses. Obtain immediate medical assistance.
<b>Ingestion</b>	If swallowed, do NOT induce vomiting. Seek medical advice immediately. Have product label or this SDS at hand. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.
<b>Health Hazard : Information</b>	Treat according to symptoms. Gastric lavage may be indicated if ingested. Do not wait for symptoms to develop. General measures should be taken to control acidosis and maintain urine output.

### 5. Fire Fighting Measures

**Extinguishing Media to be used**

☒ Foam
 ☒ Dry Chemical
 ☒ Water Spray  
☒ Carbon Dioxide
 ☐ Alcohol Foam
 ☐ Other...

**Special Fire Fighting Procedures**

storage drums with water spray. Evacuate area downwind of fire.

Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses.

#### Unusual Fire and Explosion Hazards

Vapour / air mixture may ignite explosively. Flashback along vapour trail may occur.

## 6. Accidental Release Measures

#### Spill and Leak Procedure

Evacuate spill area and eliminate all ignition sources. If possible remove leaking containers to detached area while wearing approved respirator and personal protection equipment. Bund spill with inert material (e.g. Sand, Earth Etc.) and absorb spilled product on fire retardant sawdust, diatomaceous earth etc. Transfer remaining product in leaking container to new container and solid absorbent materials to separate container for disposal. Dispose of waste at an appropriate disposal facility in accordance with local authority by laws. Prevent entry into drainage systems, rivers etc.

## 7. Handling & Storage

#### Handling

This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Electrically bond and ground all containers, personnel and equipment before transfer or use of product. Material may accumulate static discharge. Use only non-sparking tools and equipment, including explosion-proof equipment.

Wear personal protection equipment. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid Ingestion, inhalation, eye and skin contact. Do not eat, drink or smoke in work areas. Wash thoroughly after handling.

Remove contaminated clothing and wash before reuse.

#### Storage

Store in closed containers in a cool, dry well-ventilated place away from direct sunlight. Minimise or eliminate any sources of ignition such as static build-up, heat, spark and flame. Do not pressurise, cut, heat or weld containers - residual vapours are extremely flammable. This product is flammable and will fuel a fire in progress.

##### **Incompatible materials:**

Natural rubber, butyl rubber, EPDM, Polystyrene

## 8. Exposure Control / Personal Protection

#### Recommended Personal Protective Equipment to be worn during use of product: (X)

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Protective Overalls | <input checked="" type="checkbox"/> Synthetic Apron   |
| <input type="checkbox"/> Safety Glasses                 | <input checked="" type="checkbox"/> Vapour Respirator |
| <input checked="" type="checkbox"/> Splash Goggles      | <input type="checkbox"/> Dust & Vapour Respirator     |
| <input type="checkbox"/> Face Shield                    | <input type="checkbox"/> Full Protective Suit         |
| <input type="checkbox"/> Airline Hood or Mask           | <input checked="" type="checkbox"/> Boots             |
| <input checked="" type="checkbox"/> Gloves              | <input type="checkbox"/> Other...                     |

## 9. Physical And Chemical Properties

#### Appearance and Odour

Colourless liquid with sweet alcohol odour

**Density**

0.78 - 0.79

**Viscosity**

NA

**Vapour Pressure, mm Hg at 20°**

4.3

**Vapour Density (Air=1)**

2.1

**Melting Point/Freezing Point, °**

NE

**Aniline Point, ° (Mixed)**

**Refractive Index, @ 20°**

NE

**Residue On Evaporation, mg/100ml**

NE

**Boiling Range, °C**

82

**Flash Point° Method**

12 deg C (Closed Cup)

**Evaporation Rate (BuAc=100)**

116

**% Volatile Matter (by weight)**

100 %

**Solubility in Water**

Miscible

**Aromatics, %**

NA

**Colour**

Clear

**pH**

NE

**Auto Ignition Temperature, °**

350 deg C

**Flammability Limit, %vol**

**Lower (LEL)**

1.8%

**Upper (UEL)**

12.0%

NA = Not Applicable, NE = Not Established,  
NR = Not Regulated Against D = Decomposes

## 10. Stability And Reactivity

### Reactivity Data

This product is relatively stable but care should be taken to avoid conditions of heat, sparks, flame, vapour accumulation or build up of static electricity. Contact with strong oxidisers, concentrated nitric acid and concentrated sulphuric acid should be avoided.

### Hazardous Decomposition Byproducts

Carbon Monoxide from incomplete burning.

### Hazardous Polymerization

☒ Will Not Occur ☐ May Occur ☐ Other...

## 11. Toxicological Information

### Acute Effects of Overexposure

#### Ingestion

May cause gastrointestinal irritation with nausea, vomiting and diarrhoea. May cause systems toxicity with acidosis. May cause central nervous system depression, characterised by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

#### Skin Contact

This product may be harmful by skin contact, can be mildly irritating to skin and may result in dryness and cracking of skin.

#### Inhalation

effects characterised by nausea, headaches, dizziness unconsciousness and coma. Vapours may cause dizziness or suffocation.

<b>Eye Contact</b>	Causes severe eye irritation. May cause painful sensitisation to light. May cause chemical conjunctivitis and corneal damage.
<b>Delayed Effects</b>	Prolonged exposure may cause liver, kidney and heart damage.
<b>Mutagenic Effects</b>	NA
<b>Reproductive Effects</b>	NA
<b>Chronic Effects</b>	Causes severe eye irritation. causes respiratory tract irritation. May cause central nervous system depression. May cause liver, kidney, and heart damage. Causes moderate skin irritation

## 12. Ecological Information

**Aquatic toxicity:** Product is not classified for aquatic ecotoxicity.

**Persistence/degradability:** Not identified as persistent nor bioaccumulative.

**Mobility:** This product is highly volatile and will rapidly evaporate to air if released into the water.

**Other information:** Product is identified as harmful to terrestrial vertebrates.

**Environmental Exposure Standards:** Not set.

## 13. Disposal Considerations

**Disposal Methods:**

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.

Care should be taken to ensure compliance with national and local authorities. Packaging may still contain fumes and vapours that are highly flammable and harmful. Ensure that empty packaging is allowed to dry.

**Special Precautions for Landfill or Incineration:**

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers.

This product is ashless and can be burned directly in appropriate equipment. In the absence of a designated industrial incinerator, this product should be treated and disposed of through a chemical waste treatment facility, or considered for use in solvent recycling.

## 14. Transport Information

<b>IMCO No.</b>		Highly Flammable. This product is classified as Dangerous Goods Class 3, packing group II.
<b>UN No.</b>	1219	Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.
<b>HAZCHEM</b>	2[Y]E	
<b>D/Goods Class</b>	3.1 B	
<b>UN Packing Group</b>	II	

## 15. Regulatory Information

## 16. Other Information

### Other Data.

IF PRINTED THIS MSDS SHEET IS UNCONTROLLED.

**Hi - Tec Ink** urges each customer or recipient of this MSDS to study it carefully to become aware of and the hazards associated with the product.

The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS. To promote safe handling, each customer or recipient should:

- (1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards of safety;
- (2) furnish this same information to each of its customers for the product; and
- (3) request its customers to notify their employees, customers, and other users of the product of this information.

**NOTE:** The information and recommendations contained in this data sheet have been compiled from sources believed to be reliable and represent the best current opinion on the subject. No warranty, guarantee or representation is made by the company as to the absolute correctness or sufficiency of any representation contained in this data sheet and the company assumes no responsibility in connection therewith. Nor can it be assumed that all acceptable safety measures are contained in this data sheet or that other additional measures may not be required under particular or exceptional circumstances or conditions.