

# MATERIAL SAFETY DATA SHEET

## Section 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

COMPANY Delshine Chemicals  
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BRAND NAME : IPA  
TRADE NAME : IPA  
SHIPPING NAME : ( section 14 ) Isopropanol  
USE : Solvent Cleaner  
RESTRICTIONS : Keep away from naked flames , oxides and acids.

## Section 2 HAZARDS CLASSIFICATION / IDENTIFICATION

Classified as Hazardous according to Criteria of worksafe Australia  
Dangerous according to the criteria of the ADG code

UN NUMBER : 1219

Symbols : F : Highly Flammable & Xn : Harmful  
Risk Phases : R11 Highly Flammable  
R36 Irritating to eyes  
R67 Vapours may cause drowsiness and dizziness  
SAFETY PHRASES: S1/2 Keep locked up and out of reach of children  
S7 Keep container tightly closed  
S24/25 Avoid contact with skin and eyes  
S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice

## Section 3 COMPOSITION / INFORMATION OF INGREDIENTS

Chemical Entity	CAS No:	Proportion (% mass)
Propan – 2 -01	67-63-0	99%

## Section 4

## FIRST AID MEASURES

**Swallowed** : If swallowed do not induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously keep head below hips.

**Eyes** : If in eyes hold eyes open, flood with water for at least 15 minutes. If redness , burning vision or swelling persist transport to nearest medical facility for additional treatment.

**Skin** : If skin contact occurs remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available.

**Inhaled** : Remove victim from exposure if safe to do so. If rapid recovery does not occur transport to nearest medical facility for additional treatment. Remove contaminated clothing.

**First Aid facilities** : Potable water should be available to rinse eyes or skin. Provide eye bath and safety showers. **Advice to Doctor** : Treat as for excess consumption of alcoholic drink.

**Additional Information** : None available.

## Section 5

## FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** : Alcohol stable foam , water spray or fog. Dry chemical powder , carbon dioxide for small fires only. Do not use water in a jet.

**Hazard from combustion products** : Carbon monoxide and / or carbon dioxide may be evolved. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

**Precautions for fire fighters and special protective equipment** : Wear full protective clothing and self contained breathing apparatus.

**Additional Information** : Hazchem code – 2 [ Y ] E

## Section 6

## ACCIDENTAL RELEASE MEASURES

**Observe all local and national regulations**

**Spills and Disposal** : Avoid contact with spilled or released material. Shut off leaks if possible without personal risk. Remove all sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterways using sand earth or other appropriate barriers. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and earthing all equipment. Spills can be converted to non flammable mixtures by dilution with water.

**Methods and Materials for containment and clean up procedures :**

For small spills ( < 1 drum ) transfer by mechanical means to a labeled sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely. For large spill ( > 1 drum ) transfer by means such as vacuum truck to a salvage tank for recovery or disposal. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

## Section 7 HANDLING AND STORAGE

**Precautions for Safe Handling and Storage** : Avoid breathing in vapour. Use in well ventilated area. Wash thoroughly after handling . Avoid contact with skin and eyes and clothing. Handle open containers in well ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure Limits is not exceeded. Do not empty into drains. Do not eat or drink or smoke in contaminated area. Before eating , drinking or smoking remove contaminated clothing and wash hands. Do not store near strong oxidants.

**Dispensing** : Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment.

**Flammability** : Highly Flammable

## Section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Standards** : National Occupational Health and Safety Commission ( NOHSC ) Worksafe Australia has set an exposure standard 980mg/m<sup>3</sup> (400ppm) TWA (8hr), 1225mg/m<sup>3</sup> (500ppm )STEL

**Person Protective Equipment** :

**Respiratory Protection** : In instances where concentration are likely to exceed exposure limits an approved organic vapour respirator (AS/NZS 1715 and 1716 ) should be worn.

**Hand Protection** : Use solvent resistance gloves . Nitrile , PVC or neoprene.

**Eye Protection** : Wear safety goggles.

**Protective Clothing** : Use chemical resistant gloves / gauntlets , boots and apron. Skin protection not ordinarily required beyond standard issue work clothes.

**Engineering Controls** : Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mist. Keep containers closed when not in use.

## Section 9 PHYSICAL & CHEMICAL PROPERTIES

Appearance : Colourless Clear Liquid

Ph : Not available

Vapour Pressure (mmHg @20°C) 4.1 kPa

Freezing / Melting Point ( °C ) -88

Specific Gravity (g/ml@15°C ) : 0.78-0.79

Flammability Limits ( % ) : 2 – 12.0

Percent Volatiles : 100

Odour : Alcoholic

Boiling Point : (O°C ) 82 – 83

Vapour Density ( air=1 ) 2@20 Deg C

Solubility in Water : Miscible in water

Flashpoint ( °C ): 12 ( Abel )

Auto Ignition Temp ( °C ) 425

## Section 10 STABILITY & REACTIVITY

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

**Conditions to avoid** : Avoid heat sparks open flames and other ignition sources.

**Incompatible Materials** : Strong oxidizing agents strong acids.

**Hazardous Decomposition** : Burning can produce carbon monoxide and or carbon dioxide.

## Section 11 TOXICOLOGICAL INFORMATION

### Health Effects Acute

**Swallowed** : Low toxicity : LD50>200mg/kg Rat

**Eye** : Irriating to eyes.

**Skin** : Low toxicity : LD50>200mg/kg Rabbit Not irritating to skin. Prolonged contact may cause defatting of skin which can lead to dermatitis.

**Inhaled** : Low toxicity : LD50>20mg/1 / 8 hours Rat Inhalation of vapours or mist may cause irritations of the respiratory system. High concentrations may cause central nervous system depression resulting in headaches dizziness and nausea : continued inhalations may result in unconsciousness and or death. **Chronic** : Not a skin sensitizer not mutagenic not a carcinogen.

## Section 12 ECOLOGICAL INFORMATION

### Ecotoxicity :

**Fish** : Low toxicity LC/EC/IC50>100mg/1

**Aquatic** Invertebrates Low toxicity : LC/EC/IC50>1000mg/1

**Algae** : Expected to have low toxicity : LC/EC/IC50>1000mg/1

**Microorganisms** : Low toxicity L LC/EC/IC50>1000mg/1

**Mobility** : Miscible with water if product enters soil it will be highly mobile and may contaminate ground water.

**Persistence/degradability** : Biodegradable , oxidises rapidly by photochemical reactions in air.

**Bioaccumulation** : Not expected to bioaccumulate

## Section 13 DISPOSAL CONSIDERATIONS

Disposal Methods : Ensure waste disposal conforms to local waste disposal regulations.

## Section 14 TRANSPORT INFORMATION

UN Number	1219	Proper Shipping Name	ISOPROPANOL
Class	3	Subsidiary Risk	None allocated
Packaging Group	11	Hazchem Code	2 [ Y ] E
Special Precautions	None		

## Section 15 REGULATORY INFORMATION

Poisons Schedule Not scheduled

AICS Listed

Dangerous Goods Initial Emergency Response Guide ( SAA/SNZ HB76 : 1997 ) :16

<b>Section 16</b>	<b>OTHER INFORMATION</b>
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**DATE OF LAST REVISION OF MATERIAL SAFETY DATA SHEET :**  
**1<sup>st</sup> June 2008**

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**AUTHORISATION FOR ISSUE** \_\_\_\_\_ **DATE** \_\_\_\_/\_\_\_\_/\_\_\_\_\_  
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