



## MATERIAL SAFETY DATA SHEET

### ISO PROPYL ALCOHOL

#### **SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Chemical Name	:	Iso Propyl Alcohol
Chemical Formula	:	(CH <sub>3</sub> ) <sub>2</sub> CHOH
CAS Number	:	67 – 63 – 0
Synonyms	:	2 – Propanol, Iso Propanol, Sec – Propyl Alcohol
General Use	:	As solvent
Manufacturer's Name	:	Deepak Fertilisers and Petrochemicals Corprn. Ltd.
Address :	:	Plot K-1, MIDC Indl Area, Taloja A.V., Dist: Raigad
Telephone no. for info.	:	+91 - 022-267684000

#### **SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

Composition	:	Iso Propyl Alcohol 99%
Hazardous components	:	Iso Propyl Alcohol
ACGIH TLV	:	200 ppm (TWA), 400 ppm (STEL)

#### **SECTION 3 - HAZARDS IDENTIFICATION**

Primary Entry Routes	:	Inhalation, skin, eyes and ingestion
Acute Effects	:	Inhalation of vapours irritates the respiratory tract. Exposure to high concentration has a narcotic effect producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death.
Carcinogenicity	:	Not classified as human carcinogen
Chronic Effects	:	Chronic exposure may cause skin effects.
Aggravation of Pre-existing conditions	:	Persons with pre-existing skin disorders or impaired liver, kidney or pulmonary function may be more susceptible to the effects of this chemical
NFPA rating	:	Health – 1; Fire – 3; Reactivity - 0

#### **SECTION 4 - FIRST AID MESURES**

Eyes	:	Immediately flush eyes with plenty of water for atleast 15 minutes ; Lifting lower & upper eyes lids occasionally, Get medical attention immediately.
Skin	:	Immediately flush skin with plenty of water for atleast 15 minutes ; Call a physician, if irritation develops.
inhalation	:	Remove affected person to fresh air. ;If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	:	Give large amount of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.



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### SECTION 5 - FIRE FIGHTING MEASURES

Flash point	:	12 °C (54° F)
Flash point method	:	Closed Cup
Auto ignition temp.	:	399 °C (750° F)
L E L	:	2%
U E L	:	12.5%
Flammability classifn.	:	Flammable
Extinguishing media	:	Water spray, Dry chemical, Alcohol Foam or CO <sub>2</sub> Water spray may be used to keep fire expose containers cool, dilute spills to non-flammable mixtures and to protect personnel attempting to stop leak and disperse vapours.
Unusual fire or explosion hazards	:	Above flash point, vapour air mixtures are explosive within flammable limits as mentioned above. Contact with strong oxidizers, may cause fire or explosion. Vapours can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.
Hazardous combustion products	:	CO <sub>2</sub> and Carbon Monoxide may be formed when heated to decomposition.
Fire fighting instructions	:	In the event of fire; Wear full protective clothing and self contained breathing apparatus with full face piece.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small Spills	:	Shut off leaks without risk. Absorb on sand or earth.
Containment	:	Prevents spillage from entering drains or water sources. Contain and recover liquid when possible
Clean up	:	Wash the area with water preventing run-off from entering drains.

### SECTION 7 - HANDLING AND STORAGE

Handling Precautions	:	Protect against physical damage; Containers should be bonded and grounded. Use non-sparking tools & equipment. Avoid breathing vapours. ; Avoid contact with skin & eyes. Wash thoroughly after handling.
Storage Requirements	:	Store in a cool, dry, well ventilated area away from heat source. Storage and usage area should be clarified as "No smoking Area".

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	:	Provide proper ventilation so as to maintain environment below
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air borne exposure limit.

Respiratory Protection : If exposure limit is exceeded, use respiratory protection  
Protective Clothing : Wear impervious protective clothing including boots, gloves, apron, coveralls while handling.

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State : Liquid  
Appearance & Odour : Colourless liquid with alcoholic odour  
Vapor Pressure : 44 mmHg @ 25 °C  
Specific Gravity : 0.79 @ 20 °C  
Water Solubility : Miscible in water  
Boiling Point : 82 °C  
Freezing Point : (-)88.4 °C  
Vapor Density : 2.1

### **SECTION 10 - STABILITY AND REACTIVITY**

Stability : Stable under ordinary conditions of Use and Storage. Heat and sunlight can contribute to instability.  
Chemical incompatibilities : Oxidizing agents, acetaldehyde, acids, chlorine, ethylene oxide, hydrogen-palladium combination, hydrogen peroxide-sulfuric acid combination, potassium t-butoxide, hypochlorous acid, iso cyanides, nitroform, phosgene, aluminum, oleum and perchloric acid.  
Conditions to Avoid : Heat, flames, ignition sources and incompatibles.  
Hazardous Decomposition product : CO<sub>2</sub> and Carbon Monoxide may be formed when heated to decomposition.

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

TLV as per ACIGH : 200 ppm (TWA), 400 ppm (STEL)  
Acute Inhalation Effects : Inhalation of vapours irritates the respiratory tract. Exposure to high concentration has a narcotic effect producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death.

### **SECTION 12 - ECOLOGICAL INFORMATION**

Prevent spillage from entering drains or water sources. After spills, wash area with water preventing run-off from entering drains. When released into water, this material may bio-degrade to a moderate extent.

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Disposal : Seal the waste in vapour-tight plastic bags for eventual disposal



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by incineration.

### SECTION - 14 - TRANSPORT INFORMATION

Shipping name : ISO PROPANOL

	IATA	IMO	RID / ADR
Shipping name	ISO PROPANOL	ISO PROPANOL	ISO PROPANOL
Hazard class	3	3	3
UN Number	1219	1219	1219
Packing Group	II	II	II

DOT (UN) Transportation Information :

UN Number : 1219

Response Guide : 129

Hazard Class : 3

Packing Group : II

### SECTION 15 - REGULATORY INFORMATION

Acute Low Toxic / Flammable substance

### SECTION 16 - OTHER INFORMATION

Prepared by : Deepak Fertilisers and Petrochemicals Corporation Ltd.

**Disclaimer** : This MSDS and the information it contains is offered to you in good faith as accurate. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individual and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents.

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