

MATERIAL SAFETY DATA SHEET



**DEEPAK FERTILIZERS AND
PETROCHEMICALS CORPORATION
LIMITED**

MSDS - ISO PROPYL ALCOHOL

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifiers	
Chemical Name	: Iso Propyl Alcohol
Chemical Formula	: (CH ₃) ₂ CHOH
CAS Number	: 67 – 63 – 0
Synonyms	: 2 Propanol, Iso Propanol, Sec – Propyl Alcohol
Identified uses.	: As solvent
Supplier of the safety data sheet	
Manufacturer's Name	: Deepak Fertilisers and Petrochemicals Corprn. Ltd.
Address	: Plot K-1 to K6, MIDC Inds. Area, Taloja A.V., Dist: Raigad, 410208
Telephone No. for info.	: +91 - 022-50684000

SECTION 2 - HAZARDS IDENTIFICATION


Classification according to Regulation (EC) No: 1907/2006	
Hazard statements (H statements)	
<ul style="list-style-type: none"> Flammable liquid and vapour. (Category 2), 	: H225
<ul style="list-style-type: none"> Causes serious eye irritation.(Category 2), 	: H319
<ul style="list-style-type: none"> May cause drowsiness or dizziness. 	
Specific target organ toxicity single exposure (Category 3), Respiratory system	: H336
Risk phrases (R phrases)	
<ul style="list-style-type: none"> Highly flammable. Irritating to eyes, respiratory system and skin. - Vapours may cause drowsiness and dizziness. 	:R11 :R36/37/38 : R67
Safety phrases (S phrases)	
<ul style="list-style-type: none"> Keep out of the reach of children. Do not breathe vapours. Avoid contact with eyes and skin. Not to be used for any purpose other than that for which it is intended. Wear suitable protective gloves, eye protection and face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label if possible) 	:S2 :S23 :S24/25 :S29 :S36/37/39 :S45
Precautionary statement(s)	
Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.	:P210
Keep container tightly closed.	:P233
Ground and bond container and receiving equipment	:P240

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Use explosion-proof electrical/ ventilating/ lighting/ equipment.	: P241
Use non-sparking tools.	: P242
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing	P305 + P351 + P338
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
Physical Hazards	: Flammable Liquid and vapor : Harmful if swallowed : Harmful if swallowed or in contact with skin : Harmful if swallowed or if inhaled
Label elements Labelling according to Regulation (EC) No 1272/200	Pictogram  Signal Word: danger
SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS :	
Composition	: Iso Propyl Alcohol 100%
Hazardous components	: Iso Propyl Alcohol
Formula	: C3H8O
Molecular weight	: 60,10 g/mol
CAS-No.	: 67-63-0
EC No.	: 200-661-7
ACGIH TLV	: 200 ppm (TWA), 400 ppm (STEL)
SECTION 4 - FIRST AID MESURES	
Eyes	: Immediately flush eyes with plenty of water for at least 5 minutes; Lifting lower & upper eyes lids occasionally, Get medical attention immediately.
Skin	: Immediately flush skin with plenty of water for at least 15 minutes; Call a physician, if irritation develops.
Inhalation	: Remove affected person to fresh air.; If not breathing artificial respiration. If breathing is difficult, give oxygen.

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	Get medical attention.
Ingestion	: Give large amount of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
Most important symptoms and effects both acute and delayed	May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.
SECTION 5 - FIRE FIGHTING MEASURES	
Flash point	: 12 °C (54 °F)
Flash point method	: Closed Cup
Auto ignition temp.	: 399 °C (750 °F)
LEL	: 2%
UEL	: 12.5%
Flammability classifn.	: Flammable
Extinguishing media	Water spray, Dry chemical, Alcohol Foam or CO ₂ 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.
Hazardous combustion products	: 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 ₂ and Carbon Monoxide may be formed when heated to decomposition.
Firefighting instructions	: In the event of fire; Wear full protective clothing and self-contained breathing apparatus with full face piece.
SECTION 6 - ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment, and emergency procedures	Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes or clothing.
Small Spills	: Shut off leaks without risk. Absorb on sand or earth.
Environmental precautions	Should not be released into the environment. See Section 12 for additional Ecological Information.
Containment	Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Prevents spillage from entering drains or water sources. Contain and recover liquid when possible. Soak up with inert absorbent material. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Keep in suitable, closed containers for disposal
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.

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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"
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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	: Provide proper ventilation so as to maintain environment 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, aluminium, oleum and perchloric acid.
Conditions to Avoid	: Heat, flames, ignition sources and incompatibles.
Hazardous Decomposition product	: CO ₂ 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	: 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

Toxicity	no data available
Persistence and degradability	no data available
Bio-accumulative potential	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.
Mobility in soil	no data available
Results of PBT and vPvB assessment	no data available
Other adverse effects	no data available

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SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal	: Seal the waste in vapour-tight plastic bags for eventual disposal by incineration. Dispose according to local legislation. Consult the appropriate local waste disposal expert about waste disposal
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SECTION 14 - TRANSPORT INFORMATION

	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: Toxic-Inhalation Hazard.

UN Number	: 1219
Response Guide	: 129
UN label	
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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