TAESUNG AUTOIND PRIVATE LIMITED

#165, Sidco Industrial Estate,

Thirumazhisai, Chennai -600 124,

Tamil Nadu, India.

Material Safety Data Sheet

Section 1: Chemical Product and company Identification

Product Name: Isopropyl alcohol (G-1)
Synonym: 2- Propanol
Chemical Name : isopropanol
Contact Information:
Taesung Autoind Pvt Ltd,
Shed No: 165, Sidco Industrial Estate, Thirumazhisai, Chennai- 600124
Prepared Date : 28-Sep-2005

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Emergency Contact No:+91- 9600172742, +91-9600297494

Section 2: composition and Information on Ingredients

S. No	Name	CAS#	% by Weight
1	Iso propyl alcohol	67-63-0	100

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, sensitizer, permeator).

Potential Chronic Health Effects:

Slightly hazardous in case of skin contact (sensitizer). Carcinogenic effects: A4 (Not classifiable for human or animal) by **ACGIH,** 3 (Not classifiable for human.) by **IARC**. **MUTAGENIC EFFECTS:** Not available. **TERATOGENIC EFFECTS:** Not available. **DEVELOPMENTAL TOXICITY:** Classified Reproductive system/toxin/female, Development toxin **[POSSIBLE].** The substance may be toxic to kidneys, liver, skin, central nervous system. Repeated or prolonged exposure to the substance can produce target organs damage

Section 4: First Aid Measures

Eye contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact:
Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Ingestion:
Do Not induce vomiting unless directed to do so by medical personal. Never give anything by mouth to an unconscious person.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.
Auto-ignition Temperature: 399 ^{O} C
Flammable Limits: Lower: 2% **UPPER:** 12.7%
Products of Combustion: These products are carbon oxides (CO, CO_2).

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water. **SMALL FIRE:** Use DRY chemical Powder. **LARGE FIRE:** Use alcohol foam, water spray or fog.

Special Remarks on Explosion Hazards:

Secondary alcohols are readily auto oxidized in contact with oxygen or air, forming ketones and hydrogen peroxide. It can become potentially explosive. It reacts with oxygen to form dangerously unstable peroxides which can concentrate and expode during distillation or evaporation. The presence of 2- butanone increases the reaction rate for peroxide formation. Explosive in the form of vapor when exposed to heat or flame. May form explosive mixtures with air.

Section 6 : Accidental Release Measures

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:

Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry in to sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLC. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapors/spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

Storage:

Store in a segregated and approved area. Keep container in a cool, well- ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls/ Personal Protection

Engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work- station location.

Personal Protection:

Splash goggles. Full suit. Vapor respirator. Be sure to use an approved/ certified respirator or equivalent. Gloves.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Pleasant. Odor resembling that of a mixture of ethanol and acetone.

Taste: Bitter. (Slight.)

Molecular Weight; 60.1 g/mole.

Color: Colorless.

pH (1% solution /water): Not available.

Boiling Point: 82.5 º C

Melting Point: -88.5 º C

Specific Gravity: 0.78Kg/L

Critical Temperature: 235°C (455°F)

Vapor Pressure: 4.2 ~4.4 kPa (@ 20°C)

Vapor Density: 2.07 (Air = 1)

Volatility: Not available

Solubility:

Easily soluble in cold water, hot water, methanol, diethyl ether, n- octanol, acetone. Insoluble in salt solution. Solution in benzene. Miscible with most organic solvents including alcohol, ethyl alcohol, chloroform.

Section 10: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation.

Toxicity to Animals:
WARNING: The LC50 Values Hereunder are estimated on the basis of A 4- hour Exposure. Acute oral toxicity (LD50): 3600 mg/Kg [Mouse]. Acute dermal toxicity (LD50): 12800 mg/Kg [Rabbit]. Acute toxicity of the vapor (LC50): 16000 8 hours [Rat].

Chronic effects on Humans:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC.
DEVELOPMENTAL TOXICITY: Classified reproductive system/toxin/female, Development toxin [POSSIBLE]. May cause damage to the following organs: kidneys, liver, skin central nervous system (CNS).

Section 11: Ecological Information

Ecotoxicity: Ecotoxicity in water (LC50); 100000 mg/L 96 hours. 64000 mg/L 96 hours.

BOD5 and COD: Not available.

Product of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The Product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 12: Disposal Considerations

Waste Disposal:

Waster must be disposed of in accordance with federal, state and local environmental control regulations.

Section 13: Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: Isopropyl Alcohol UNNA: 1219 PG; II

Special Provisions for Transport: Not Available.

Section 14: Ecological Information

Ecotoxicity: Ecotoxicity in water (LC50): 100000 mg/l 96 hours [Fathead Minnow]. 64000 mg/l 96 hours [Fathead Minnow].
BOD5 and COD: Not available.
Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation: Not available

Section 15: Other Regulatory Information

Federal and State Regulations:
Connecticut hazardous material survey.: Isopropyl alcohol Illinois toxic substances disclosure to employee act: Isopropyl
alcohol Rhode Island RTK hazardous substances: Isopropyl alcohol Pennsylvania RTK: Isopropyl alcohol Florida: Isopropyl
alcohol Minnesota: Isopropyl alcohol Massachusetts RTK: Isopropyl alcohol New Jersey: Isopropyl alcohol New Jersey spill
list: Isopropyl alcohol Director's list of Hazardous Substances: Isopropyl alcohol Tennesee: Isopropyl alcohol TSCA 8(b)
inventory: Isopropyl alcohol TSCA 4(a) final testing order: Isopropyl alcohol TSCA 8(a) IUR: Isopropyl alcohol TSCA 8(d) H
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and S data reporting: Isopropyl alcohol: Effective date: 12/15/86 Sunset Date: 12/15/96 TSCA 12(b) one time export: Isopropyl
alcohol SARA 313 toxic chemical notification and release reporting: Isopropyl alcohol
Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is on the
European Inventory of Existing Commercial Chemical Substances.
Other Classifications:
WHMIS (Canada):
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is on the
European Inventory of Existing Commercial Chemical Substances.
Other Classifications:
WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects
(TOXIC).
DSCL (EEC):
R11- Highly flammable. R36- Irritating to eyes. S7- Keep container tightly closed. S16- Keep away from sources of ignition
- No smoking. 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.
Specific hazard:
Protective Equipment:
Gloves.Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator
when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.
Other Special Considerations: Not available.
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