

Material Safety Data Sheet (MSDS)

Product Name: Isopropyl Alcohol (IPA) IP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

Product Name: Isopropyl Alcohol (IPA) IP Grade

Synonyms: Isopropanol, 2-Propanol

CAS No.: 67-63-0

Molecular Formula: C₃H₈O

Recommended Use: Pharmaceutical manufacturing, disinfectant, solvent, laboratory reagent

Grade: IP (Indian Pharmacopoeia)

2. Hazard Identification

Classification: Highly flammable liquid and vapor

Hazard Statements:

- Causes serious eye irritation
- May cause drowsiness or dizziness

Signal Word: Danger

3. Composition / Information on Ingredients

Chemical Name: Isopropyl Alcohol

Purity: ≥ 99.5% (IP Grade)

CAS No.: 67-63-0

4. First Aid Measures

Inhalation: Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash with soap and water. Remove contaminated clothing.

Eye Contact: Rinse cautiously with water for at least 15 minutes.

Ingestion: Do NOT induce vomiting. Seek immediate medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Media: Alcohol-resistant foam, dry chemical, CO₂

Specific Hazards: Vapors may form explosive mixtures with air

Protective Equipment: Self-contained breathing apparatus (SCBA)

6. Accidental Release Measures

Eliminate ignition sources. Absorb with inert material (sand, earth). Ventilate area thoroughly.

Dispose according to local regulations.

7. Handling and Storage

Handling: Use only in well-ventilated areas. Avoid contact with eyes and skin.

Storage: Store in tightly closed containers in a cool, dry, well-ventilated place away from heat and flame.

8. Exposure Controls / Personal Protection

Exposure Limit:

- OSHA PEL: 400 ppm

- ACGIH TLV: 200 ppm

Personal Protective Equipment:

- Safety goggles
- Chemical-resistant gloves
- Protective clothing

9. Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: Characteristic alcohol odor

Boiling Point: ~82.6°C

Flash Point: ~12°C

Solubility: Completely miscible with water

10. Stability and Reactivity

Stability: Stable under normal conditions

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition: Carbon monoxide, carbon dioxide

11. Toxicological Information

Acute Toxicity:

- Inhalation: May cause respiratory irritation
- Skin: Prolonged contact may cause dryness
- Eyes: Causes irritation

12. Ecological Information

Ecotoxicity: Harmful to aquatic life in large quantities

Biodegradability: Readily biodegradable

Persistence: Low

13. Disposal Considerations

Dispose of in accordance with local, regional, and national regulations. Do not discharge into drains or waterways.

14. Transport Information (DETAILED)

UN Number: UN 1219

Proper Shipping Name: Isopropyl Alcohol

Transport Hazard Class: Class 3 – Flammable Liquids

Packing Group: II

Hazard Label: Flammable Liquid

Mode of Transport:

- **Road (ADR):** Permitted with proper labeling and packaging
- **Rail (RID):** Regulated as flammable liquid
- **Sea (IMDG):** UN 1219, Class 3, Packing Group II
- **Air (IATA):** Allowed with quantity restrictions

Special Transport Precautions:

- Keep away from heat, sparks, and open flames
- Containers must be tightly sealed and upright
- Transport vehicles should be properly ventilated
- Follow all applicable national and international transport regulations

15. Regulatory Information

Complies with applicable pharmaceutical and chemical safety regulations under Indian Pharmacopoeia standards.

16. Other Information

The information provided in this MSDS is based on current knowledge and is intended for safe handling, storage, and use of the product. It does not constitute a guarantee of specific properties.

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