

IDENTITY: Isopropyl Alcohol

Section I – Manufacturer Information

EM Science
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Section II – Hazard Ingredients/Identity Information

Iso-Propyl Alcohol 100%

Trade names: Isopropanol, 2-Propanol

Section III – Physical/Chemical Characteristics

Boiling Point: 82.3°C	Specific Gravity: 0.7854
Vapor Pressure: 33 @ 20°C (68°F)	Melting Point: -88.5°C
Vapor Density: 2.07	Evaporation Rate: 2.88

Solubility in Water: Miscible
Appearance and Odor: Clear, colorless liquid/rubbing alcohol

Formula – $\text{CH}_3\text{CHOHCH}_3$
Molecular weight – 60.10

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used): 53°F	Flammable Limits:
LEL: 2.0	UEL: 12.0

Extinguishing Media: Dry chemical, CO₂, “alcohol” foam, water spray to cool fire-exposed containers and disperse vapors.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Dangerous fire and explosive hazard. Vapor can travel distances to ignition source and flash back. Hot organic chemical vapors or mists are susceptible to sudden spontaneous combustion when mixed with air. Ignition may occur at temperatures below published autoignition or ignition temperatures. Ignition temperatures decrease with increasing vapor volume and vapor/air contact time and are influenced by pressure changes. Ignition may occur at typical elevated

temperature process conditions, especially in process operating under vacuum if subjected to sudden ingress of air, or outside process equipment operating under elevated pressure if sudden escape of vapors or mists to the atmosphere occurs

Section V – Reactivity Data

Stable or Unstable? Stable

Conditions to Avoid: Heat and sunlight can contribute to instability.

Incompatibility (Materials to Avoid): Acids, oxidizers, aldehydes, halogens and halogen compounds

Hazardous Decomposition or Byproducts: CO_x

Hazardous Polymerization May Occur or Will Not Occur? Will Not Occur

Conditions to Avoid: Heat, contact with ignition source.

Section VI – Health Hazard Data

Routes of Entry

Inhalation: Yes

Ingestion: Yes

Skin: Yes

Eye: Yes

Carcinogenicity:

NTP: No

IARC Monographs: No

OSHA Regulated: No

Health Hazards: Flammable liquid and vapor. Harmful if swallowed or inhaled. May cause eye injury.

Signs and Symptoms of Exposure:

Inhalation: Effects are nausea, intoxication, central nervous system depression, headache, decreased blood rate, coma.

Skin: Causes skin irritation

Ingestion: Effects are nausea, intoxication, central nervous system depression, headache, decreased blood rate, coma.

Eye: May cause eye irritation or injury.

Medical Conditions Generally Aggravated by Exposure: Respiratory and skin conditions.

Emergency and First Aid Procedure:

Inhalation – Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion – If swallowed, give water to drink. Induce vomiting if medical help is not immediately available. Never give anything by mouth to an unconscious person. Seek medical attention.

Skin – Immediately flush skin with plenty of soap and water for at least 15 minutes. Seek medical attention.

Eyes – Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

Section VII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Remove all sources of ignition. Ventilate area of leak or spill. Clean-up personnel require protective clothing and respiratory protection from vapors. Some spills may be absorbed on paper towels and evaporated in a fume hood. Allow enough time for fumes to clear hood, then ignite paper in a suitable location away from combustible materials. Contain and recover liquid for reclamation when possible. Larger spills and lot sizes can be collected as hazardous waste and atomized in a suitable RCRA approved combustion chamber, or absorbed with vermiculite, dry sand, earth or similar material for disposal as hazardous waste in a RCRA approved facility.

Waste Disposal Method: Ensure compliance with local, state and federal regulations.

Precautions to be Taken in Handling and Storing: Keep away from heat, sparks and flames. Keep container closed. Use with adequate ventilation. Avoid breathing vapor. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing.

Other Precautions:

Section VIII – Control Measures

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded, a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control.

Ventilation

Local Exhaust:

Mechanical:

Special:

Other:

Protective Gloves: Butyl rubber, PVC or equivalent

Eye Protection: Safety glasses with side shields should be worn at all times.

Other Protective Clothing or Equipment:

Work/Hygiene Practices: Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

Section IX – Additional Information

The information provided in this Material Safety Data Sheet represents data from the manufacturer and/or vendor and is accurate to the best of our knowledge. By providing this information, Delta Education LLC

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