



ISOPROPYL ALCOHOL

SECTION I: IDENTIFICATION

EZCHEM, Inc.
92 Don Westbrook Ave. N.
Jasper, GA 30143

Emergency Telephone Number: 1-800-535-5053
Telephone Number for Information: 706-253-5055

Product Name: Isopropyl Alcohol
Product Use: Solvent

SECTION II: HAZARD IDENTIFICATION

Signal Word: DANGER

Hazard Classification:

Flammable Liquids, Category 2

Serious Eye Damage/Irritation, Category 2A

Specific Organ Toxicity, Single Exposure; Narcotic Effects, Category 3

Hazard Statements:

H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness

Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P223 - Keep away from any possible contact with water; because of violent reaction and possible flash fire.

P241 - Use explosion-proof electrical/ventilating/lighting/equipment.

P242 - Use only non-sparking tools.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash skin thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower.

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P370 + P378 - In case of fire: Use alcohol resistant foam, water spray, polyvalent foam, BC powder, carbon dioxide for extinction.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P501 - Dispose of contents/container to an approved waste disposal plant.

Hazard Pictograms:



SECTION III: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components:

proan-2-ol

CAS No.

67-63-0

Percentage %

100%



SECTION IV – FIRST AID MEASURES

General Information: Check the vital functions. Unconscious: maintain adequate airway and respiration.

Respiratory arrest:

artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/ aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact: Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Remove clothing before washing. Take victim to a doctor if irritation persists.

After eye contact: Inse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After swallowing: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not give milk/oil to drink. Do not induce vomiting. Give activated charcoal. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Doctor: gastric lavage.

Most Important Symptoms and Effects:

Acute: If swallowed.

Delayed: Eye contact.

SECTION V – FIRE AND EXPLOSION HAZARD DATA

Suitable Extinguishing Agents: Preferably: alcohol resistant foam. Water spray. Polyvalent foam. BC powder. Carbon dioxide. Solid water jet ineffective as extinguishing medium.

Protective equipment: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Flammability of the Product: Highly flammable

Fire Hazard: DIRECT FIRE HAZARD. Highly flammable. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD. May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

Explosion Hazard: DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD. Heat may cause pressure rise in tanks/drums: explosion risk. may be ignited by sparks.

Reactivity: Upon combustion: CO and CO₂ are formed. Violent to explosive reaction with many compounds. Prolonged storage: on exposure to light: release of harmful gases/vapours. Reacts violently with (strong) oxidizers: peroxidation resulting in increased fire or explosion risk..

Products of Combustion:

Special Hazards Arising from the Substance or Mixture: See Above.

Special Remarks and Advice for Firefighters: Wear self contained breathing apparatus and firefighter's protective clothing.



SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Gloves. Protective goggles. Protective clothing.

Methods and material for containment and cleaning up:

Containment: Contain released substance. Consult "Material-handling" to select material of containers. Dam up the liquid spill. Try to reduce evaporation. Provide equipment/receptacles with earthing. Assure good ventilation until all liquid is evaporated.

Clean Up: Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Spill must not return in its original container. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

Handling

Precautions for safe handling: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Avoid prolonged and repeated contact with skin. Keep container tightly closed. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

Hygiene Measures: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Storage

Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight, incompatible materials. Keep container closed when not in use.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

Storage temperature: Room temperature.

Heat and ignition sources: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Prohibitions on mixed storage: KEEP SUBSTANCE AWAY FROM: oxidizing agents. reducing agents. (strong) acids. (strong) bases. halogens. amines.

Storage area: Store in a cool area. Keep out of direct sunlight. Store in a dry area. Store in a dark area. Ventilation at floor level. Fireproof storeroom. Provide for a tub to collect spills. Meet the legal requirements.



SECTION VIII – EXPOSURE CONTROL MEASURES

Exposure Limits:

Appropriate Engineering Controls: Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Eye washes and showers for emergency use.

Personal Protective Equipment:



Hand: Protective Gloves. Wear gloves of adequate length to offer appropriate skin protection from splashes. Butyl gloves have been found to offer adequate protection for incidental contact.

Eye: Safety Glasses/Goggles

Skin and Body: Chemical resistant gloves/gauntlets, boots, and apron.

Respiratory: Wear gas mask with filter type A if conc. in air > exposure limit.

Additional Information: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. **GIVE GOOD RESISTANCE:** butyl rubber; tetrafluoroethylene.

GIVE LESS RESISTANCE: chlorosulfonated polyethylene; natural rubber; neoprene; polyurethane; PVA; styrene-butadiene rubber. **GIVE POOR RESISTANCE:** nitrile rubber; polyethylene; PVC; viton; nitrile rubber/PVC.

SECTION IX – PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance	Form: Liquid Color: Colorless Odor: Rubbing Alcohol
pH-value:	7
Boiling Point/Boiling Range:	56°C
Freezing Point:	NA
Flash Point:	-18°C
Auto Igniting:	Product is not self-igniting.
Vapor Pressure:	828 hPa
Vapor Density:	0.79
Viscosity:	NE
Solubility:	Soluble in water, ethanol, ether, dimethyl ether, petroleum spirit, chloroform, dimethylformamide, oils/fats. Water: Complete Ethanol: Complete Ether: Complete
Evaporation Rate:	> 1
Flammability:	Highly Flammable
Decomposition Temperature:	NE



SECTION X – REACTIVITY DATA

Conditions to be avoided: Violent to explosive reaction with many compounds. Prolonged storage: on exposure to light: release of harmful gases/vapours.

Incompatible materials: Reacts violently with (strong) oxidizers: peroxidation resulting in increased fire or explosion risk.

Hazardous Decomposition Products: CO and CO₂.

Reactivity: Not reactive with air.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: As listed above.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute toxicity: Not Classified

Likely Route of Exposure: Inhalation

Exposure Symptoms:

Eyes: Serious eye irritation.

Skin: Drying.

Inhalation: Irritation to respiratory system. Dizziness.

Ingestion: Nausea, gastric irritation.

Effects (Short-term, Long-term):

Immediate: Ingestion.

Delayed: Inhalation.

Chronic: NE

Carcinogenicity: No.

Sensitization: No sensitizing effects known.

SECTION XII - ECOLOGICAL INFORMATION

Aquatic toxicity: No further relevant information available.

Persistence and Degradability: Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions.

Behavior in Environmental Systems:

Bioaccumulative Potential: Not bioaccumulative.

Mobility in Soil: No Data.

Other Adverse Effects: None known.

SECTION XIII - DISPOSAL CONSIDERATIONS

Recommendation: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into drains or the environment.



Safety Data Sheet
May be used to comply with OSHA's Hazard
Communication Standard (HCS), 29 CFR 1910, 1200.
Standard must be consulted for specific requirements.

SECTION XIV – TRANSPORT INFORMATION

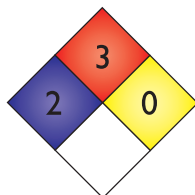
UN-Number: 1219
UN Proper Shipping Name: Isopropyl Alcohol
Transport Hazard Class: Flammable - 3
Packing Group: II
Environmental Hazards: Not hazardous.

Additional Information: None.
Special Precautions for User: Avoid all flames or sparks.



SECTION XV - OTHER REGULATORY INFORMATION

NFPA Ratings (Scale 0-4)



Health: 2
Fire: 3
Reactivity: 0



SECTION XVI - OTHER INFORMATION

Last Updated: 6/1/2015

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products. End of SDS.