

SAFETY DATA SHEET

D-___ ISOPROPYL ALCOHOL

1. IDENTIFICATION

Product Code : D-___
Product Name : Isopropyl Alcohol
Synonyms : 2-Propanol
Recommended Use : Solvent
Restrictions on Use : For Industrial and Commercial Use Only
Supplier Identifier : Aaladin Superior Cleaning Systems, Ltd.
1 - 71 Don Valley Parkway
Sunnyside, MB R5R 0E1
Canada
Phone: (204) 663-6618 Fax: (204) 663-3125
Emergency Telephone Number (CANUTEC): (613) 996-6666

2. HAZARD IDENTIFICATION

Classification: Flammable Liquid (Category 2)
Acute toxicity, oral (Category 4)
Acute toxicity, dermal (Category 1)
Acute toxicity, inhalation – mists/vapour (Category 2)
Serious eye damage/eye irritation (Category 2A)

Symbol:



Signal Word: Danger

Hazard Statements:

- Flammable liquid and vapour
- Harmful if swallowed
- Causes eye irritation
- May cause drowsiness or dizziness

Precautionary Statements:

Prevention

- Wear protective gloves/protective clothing/eye protection/face protection
- Wash face, hands and exposed skin with water after handling
- Do not eat, drink or smoke when handling this product
- Use only outdoors or in well ventilated area
- Ground container and receiving equipment
- Do not breathe mist/vapor
- Use non-sparking tools
- Take action to prevent static discharges
- Keep away from heat, hot surfaces, sparks, open flames and ignition sources
- Keep container tightly closed
- Store in a cool and well ventilated area

Other Hazards Not Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percentage (w/w)
2-Propanol (CAS#: 67-63-0)	90 to 99.9

4. FIRST-AID MEASURES

Show this safety data sheet to the physician in attendance. Immediate medical attention is required.

First Aid Measures by Route of Exposure:

Inhalation: Move victim to fresh air. Seek immediate medical attention.

Skin Contact: Wash the affected area with plenty of slow flowing water. Seek immediate medical attention.

Eye Contact: Wash eye with plenty of water for at least 15 minutes. Obtain immediate medical attention.

Ingestion: Swallowing methanol is life threatening. Call a physician immediately. If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person.

First Aid Comments: All first aid procedures should be periodically reviewed by a doctor familiar with the chemical and its conditions of use in the workplace.

Notes to Physician: Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g. gastric lavage after endotracheal intubation).

Immediate medical attention and special treatment needed, if necessary: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point: <-18 °C / 0 °F

Flash Point Method: ASTM D56

Autoignition Temperature: 225°C /437°F

Flammable Limits in Air (%): Lower: 1.2% Upper: 7.3%

Extinguishing Media: Use DRY chemicals, CO2, alcohol foam or water spray.

Special Exposure Hazards: Use water spray to cool fire-exposed containers and structures. Do not use a solid stream of water. If a leak or spill has not ignited use water spray to disperse the vapors. Product will float and can be reignited on surface of water. Vapors may travel along ground and flashback along vapor trail may occur.

Hazardous Decomposition/Combustion Materials (under fire conditions): Smoke. Toxic fumes. Carbon monoxide.

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 3, INSTABILITY 0 HMIS RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 3, REACTIVITY 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Remove or isolate incompatible materials as well as other hazardous materials.

Methods for Containment and Clean-up: Contain and soak up spill with absorbent that does not react with spilled product. Flush spill area. Dike spilled product to prevent runoff.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Wear protective equipment. Ensure adequate ventilation. Keep away from heat, sparks, open flame and direct sunlight. Keep containers tightly closed when not in use or empty. Do not eat, drink or smoke while handling this product.

Conditions for Safe Storage: Store in an area that is: cool, dry, well-ventilated, separate from incompatible materials. Keep amount in storage to a minimum. Store in the original, labelled shipping container. Vent drums to prevent pressure buildup. Do not handle swollen drums. Get expert advice.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters, including occupational exposure guidelines or biological exposure limits and the source of those values: No exposure limits

Appropriate Engineering Controls: Use a local exhaust ventilation and enclosure, if necessary, to control amount in the air. Exhaust directly to the outside, taking any necessary precautions for environmental protection. Eye wash facility and emergency shower must be available when handling this product.

Individual Protection Measures:

Eye/Face Protection: Wear chemical safety goggles. A face shield (with safety goggles) may also be necessary.

Skin Protection: Wear chemical protective clothing e.g. gloves, aprons, boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Colour: Colorless

Odor: Characteristic Alcohol Odor

Odor Threshold: Not Available

pH: no data

Freezing Point: -89°C

Initial Boiling Point/Boiling Range: 82°C

Flash Point: 12°C

Evaporation Rate: 1.5

Flammability (solid; gas): Not Available

Lower Flammable/Explosive Limit: 2

Vapour Pressure: Not Available

Upper Flammable/Explosive Limit: 12

Vapour Density: Not Available

Relative Density: 0.785 g/mL @20°C

Solubility: Negligible in water

Partition Coefficient – n-octanol/water: Not Available

Viscosity: Not Available

Auto-ignition Temperature: 425°C

Decomposition Temperature: Not Available

10. STABILITY AND REACTIVITY

Reactivity: Not available

Chemical Stability: Stable

Possibility of Hazardous Reactions: None under normal processing

Conditions to Avoid: Heat and Open Flames

Incompatible Materials: strong oxidizing agents (e.g. peroxides), strong acids, aldehydes, halogens and halogenated compounds

Hazardous Decomposition Products: oxides of carbon

11. TOXICOLOGICAL INFORMATION

Information on the Likely Routes of Exposure: Skin contact, Eye contact.

- **Inhalation:** Not expected to be an inhalation hazard unless it becomes an airborne dust or mist. May cause irritation of the nose and throat.
- **Skin Contact:** Not expected to cause irritation.
- **Eye Contact:** May cause mild irritation.
- **Ingestion:** May cause stomach upset. Symptoms may include nausea, vomiting, stomach cramps and diarrhea. Can cause death.
- **Effects of Long-Term (Chronic) Exposure:** Not Available.
- **Carcinogenicity:** Not known to cause cancer.

International Agency for Research on Cancer (IARC): Not specifically designated.
American Conference for Governmental Industrial Hygienists (ACGIH): Not specifically designated.

- **Teratogenicity / Embryotoxicity:** Not known to harm the unborn child.
- **Reproductive Toxicity:** Not known to be a reproductive hazard.
- **Mutagenicity:** Not known to be a mutagen.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available **Persistence and Degradability:** Expected to be biodegradable.
Bioaccumulative Potential: Not Available **Mobility in Soil:** Not Available
Other Adverse Effects: No adverse environmental effects are expected from this product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Disposal of all wastes must be done in compliance with federal, provincial and local regulations. Liquid residues must be properly neutralized to pH 6 – 9 then may be disposed off in waste water treatment facilities which allow the discharge of neutral salt solutions.

Contaminated Packaging: Empty containers should be recycled or disposed off through an approved waste management facility.

14. TRANSPORT INFORMATION

UN Number: 1219 **UN Proper Shipping Name:** ISOPROPANOL **Transport Hazard Class:** 3
Packing Group: II **Environmental Hazards:** Not Available **Transport in Bulk:** Not Available
Special Precautions:

15. REGULATORY INFORMATION

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

16. OTHER INFORMATION

Prepared by: JAIME CORPUZ
Aaladin Superior Cleaning Systems, Ltd.
1 - 71 Don Valley Parkway
Sunnyside, MB R2C 2Z2
Canada

Date Prepared: 22 Sep 2022

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