

**GC Electronics**  
1801 Morgan Street  
Rockford, IL 61102  
Phone: (815) 968-9661  
Fax: (815) 968-9731  
www.gcelectronics.com

**Product Name: ISOPROPYL ALCOHOL**  
MSDS Number: 185  
Revision Date: 11/18/03  
Supersedes Date: 1/13/03

**MATERIAL SAFETY DATA SHEET**

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: **Solvent Cleaner**  
Product Name: **GC Isopropyl Alcohol**  
Part Number(s): **10-1507**  
**Z-9776**  
**10-1507-G**  
**19-770**  
**Z-9753**

Emergency Contact: **Chemtrec**  
Phone (24 hours): **(800) 424-9300**

**Section 1 - Identification of Product**

Common Name (used on label)(Trade Name & Synonyms): GC Isopropyl Alcohol  
CAS. Number: See Section 2  
Chemical Name: Isopropanol  
Chemical Family: N/A  
Formula: N/A

<b>HMIS RATINGS</b>	Minimal Hazard	0
	Slight Hazard	1
Health: 2	Moderate Hazard	2
Flammability: 3	Serious Hazard	3
Reactivity: 0	Severe Hazard	4
Personal Protection: B	Gloves, Safety Glasses	B

**Section 2 - Hazardous Ingredients**

Hazardous Component	CAS. #	OSHA PEL	ACGIH TLV	VAPOR PRESSURE		FLASH POINT		APPROX WT %
				@ 25°C	LEL UEL	DEGREE F		
Isopropyl Alcohol**	67-63-0	400ppm	400ppm	31 mmHg	2.2 12.0	53(TCC)		100

\*\*NOTE: This product contains an ingredient subject to Section 313 of SARA Title III.  
N/A is not available or not applicable

**Section 3 - Physical Data**

Physical State: Clear liquid – concentrate  
Appearance: Transparent colorless  
Solubility in Water (by weight): Negligible  
Odor: Irritating odor at high concentrations  
Percent Volatiles: Organic compound – 100 Wt. %

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Boiling Point (760 mmHg): 82.3°C 180°F  
Specific Gravity (H<sub>2</sub>O = 1): .79  
Vapor Density (air = 1): >1  
Evaporation Rate (Butyl Acetate = 1) >1  
Reactivity in Water: None  
Hazards of Product: **WARNING:** Flammable  
Causes eye irritation  
May cause dizziness and drowsiness

**Section 4 - Fire & Explosion Hazard Data**

Flash Point (Closed Cup): Tag closed cup ASTM D 56 12°C 53°F (TCC)  
Auto-Ignition Temperature: Not Currently Available  
Flammable Limits in Air: Lower 2.2% (V) Upper 12.0% (V) 200°F  
Extinguishing Media: Extinguish fires with water spray by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires.  
Special Fire Fighting Procedures: Use water spray to cool fire-exposed containers and structures. Use water spray to disperse vapors; re-ignition is possible.  
Special Protective Equipment for Firefighters: Use self-contained breathing apparatus and protective clothing.  
Unusual Fire and Explosion Hazards: Extremely flammable. Do not use or store near heat or ignition sources. Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point. Vapors from this material may settle in low or confined areas or travel a long distance to an ignition source and flash back explosively. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Use proper bonding and grounding during product transfer as described in National Fire Protection Association Document NFPA 77. See Section 8.3 – Engineering Controls. This material may produce a floating fire hazard. Flame may be invisible. Approach fire with caution.  
Burning Can Produce the Following Products: Carbon monoxide and/or carbon dioxide. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

**Section 5 - Health Hazard Data**

Threshold Limit Value: See Section 2

**Signs and Symptoms of Exposure:**

Eye Contact: Contact with liquid or mist may cause irritation. Vapors may irritate eyes;  
Skin Contact: Prolonged contact may cause irritation, defatting of skin;

Inhalation: May cause nose and throat irritation. May cause nervous system Depression characterized by the following progressive steps: Headache, dizziness, nausea, staggering gait, confusion, and unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. **INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS OF THE CAN MAY BE HARMFUL OR FATAL.**

Ingestion: **MAY BE HARMFUL OR FATAL IF SWALLOWED.** Aspiration may cause rapid absorption through the lungs, which may result in systemic effects.

***IMPORTANT NOTE: REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS MAY LEAD TO PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. EYE WATERING, HEADACHES, NAUSEA, DIZZINESS AND LOSS OF COORDINATION ARE SIGNS THAT SOLVENT LEVELS ARE TOO HIGH. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.***

**Emergency First Aid Procedures**

Inhalation: Remove to fresh air. If not breathing, give mouth-to-mouth. If breathing is difficult, oxygen may be given by qualified personnel. Do not give epinephrine or similar drugs. Obtain medical attention.

Eyes: Immediately flush eyes with water and continue washing for 15 minutes. Remove contact lenses, if worn. Obtain medical attention.

Skin: Remove contaminated clothing. Wash skin with soap and water using flowing water or shower. If irritation persists or if contact has been prolonged, obtain medical attention.

Swallowing: Do not induce vomiting. Call a physician immediately.

Notes to Physician: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

### Section 6 - Reactivity Data

Stability/Instability:	Stable
Conditions to Avoid:	Avoid any excessive heat, ignition sources, open flames, or other high temperatures which induce thermal decomposition.
Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon Dioxide, Carbon Monoxide.
Hazardous Polymerization:	Will not occur.
Conditions To Avoid:	Not Applicable

### Section 7 - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled:	
Small Spills:	Remove ignition sources. Mop up, wipe up, or soak up immediately. Use proper protective equipment.
Large Spills:	Evacuate area. Remove ignition sources. Contain liquid; transfer to closed containers; keep out of water supplies.
Waste Disposal Methods:	Dispose in accordance with Federal, State, and Local regulations. Do not incinerate closed or empty containers.

### Section 8 - Special Protection Information

Respiratory Protection:	NIOSH or Bureau of Mines approved organic vapor-type respirator is required in absence of proper environmental control.
Ventilation:	
Local Exhaust:	To keep below TLV
Mechanical (General):	To keep below TLV
Special:	None
Other:	None
Protective Gloves:	Solvent resistant gloves - impervious gloves
Eye Protection:	Safety glasses or goggles
Other Protective Clothing or Equipment:	None reasonably foreseeable.

### Section 9 - Special Precautions

Precautions to be Taken in Handling and Storage:	Do not store above 120 Deg. F. Do not use or store near any open flames or ignition sources.
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Other Precautions:

Extremely flammable. Do not use or store near open flames, heat, or any sources of ignition. Vapors are heavier than air and will collect in low areas.

<b>Section 10 - Regulatory Information</b>
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Subject To Section 313 Of Sara Title III:            Yes. Isopropyl Alcohol = 100%

All chemical components are listed in the TSCA inventory.

Chemical Listed as Carcinogen or Potential

Carcinogen:

National Toxicology Program:                    No

I.A.R.C. Monographs:                                No

OSHA:     No

OSHA Permissible Exposure Limit:               See Section 2

AGCIH Threshold Limit Value:                   See Section 2

Other Exposure Limited Used:                    None

<b>Section 11 - Other Information</b>
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US DOT

Non-Bulk

Proper Shipping Name:                            Isopropanol

ID Number:                                         UN1219

Hazard Class:                                      3

Packing Group:                                    PG II

Labeling:    Consumer Commodity, ORM-D

Bulk

Proper Shipping Name:                            Isopropanol, Flammable Liquid

ID Number                                         UN1219

Hazard Class:                                      3

Packing Group:                                    PG II

Labeling:    Flammable Liquid

<b>Disclaimer</b>
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