
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Code	10990513
Trade Name	GP-1099 Isopropyl Alcohol; 2-Propanol : Electronic Grade
Manufacturer/Supplier	Gotparts747
Address	PO BOX 320072 Los Gatos, CA 95032
Phone Number	(888) 563-4523
Emergency Phone Number	(888) 563-4523
Chemtrec Number	(800) 424-9300
MSDS first issued	May 13, 2008
MSDS data revised	August 5, 2013
Prepared By:	Environmental, Health & Safety Department
Local Sales Company	Gotparts747 PO BOX 320072 Los Gatos, CA 95032

2. COMPOSITION/INFORMATION ON THE INGREDIENTS

Components without CAS numbers are Trade Secret

Component Name	CAS# / Codes	Concentration (%)
Isopropyl Alcohol	67-63-0	>99.5%

3. HAZARD IDENTIFICATION

Main Hazards	Flammable liquid and vapor. Harmful if swallowed or inhaled. Causes irritation to respiratory tract. Affects central nervous system. Maybe harmful if absorbed through the skin. May cause skin irritation.
Routes of Entry	Inhalation, ingestion, eye and skin contact, absorption.
Carcinogenic Status	Not considered carcinogenic by NTP, IARC and OSHA
Health Effects - Eyes	Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.
Health Effects - Skin	May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects.
Health Effects - Ingestion	Can cause drowsiness, unconsciousness, and death. Gastrointestinal pain, cramps, nausea, vomiting, and diarrhea may also result. The single lethal dose for a human adult = about 250 mls (8 ounces).
Health Effects - Inhalation	Inhalation of vapors irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death.

4. FIRST AID MEASURES

First Aid - Eyes	Immediately flush the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention immediately.
First Aid - Skin	Immediately flush the skin with large quantities of water, preferably under a shower. Remove contaminated clothing while flushing skin. Continue washing for at least 15 minutes. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention immediately.
First Aid - Ingestion	Do not induce vomiting. Wash out mouth with water. Obtain medical attention immediately. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing.
First Aid - Inhalation	Remove from exposure and provide fresh air immediately. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.
Advice to Physicians	Treat symptomatically. Acute overexposure from swallowing liquid results in kidney injury and metabolic acidosis.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use water spray, alcohol foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.
Special Fire-Fighting Procedures	This product may give rise to hazardous vapors in a fire. Vapors can travel a considerable distance to a source of ignition and result in flashback.
Protective Equipment for Fire-Fighting	Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures	In case of spill, remove any sources of ignition. Keep people away. Absorb the spilled material with earth or similar inert material. Flush the spilled area with plenty of water.
Personal Precautions	Wear appropriate protective clothing. Wear respiratory protection.
Environmental Precautions	Prevent the material from entering drains or water courses. Do not discharge directly to a water source.

7. HANDLING AND STORAGE

Handling	Use local exhaust ventilation. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Keep away from heat, sparks, flame, and other sources of ignition. Practice good personal hygiene to prevent accidental exposure.
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7. HANDLING AND STORAGE

Storage	Store in original container. Storage area should be cool dry well ventilated out of direct sunlight.
Other	None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Airborne Exposure Limits:

For Isopropyl Alcohol (2-Propanol):

-OSHA Permissible Exposure Limit (PEL):
400 ppm (TWA)

-ACGIH Threshold Limit Value (TLV):

200 ppm (TWA), 400 ppm (STEL), A4 - not classifiable as a human carcinogen.

Engineering Control Measures

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.

Respiratory Protection

An organic solvent approved air purifying respirator recommended.

Hand Protection

Butyl rubber gloves. Nitrile, or other chemical resistant gloves may be recommended by your safety professional. Inspect all gloves prior to use and replace worn or damaged gloves.

Eye Protection

Chemical safety goggles. Eye bath should be present nearby.

Body Protection

Wear suitable protective clothing, gloves, boots, and aprons as necessary to prevent contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Clear Liquid
Color	Clear
Odor	Alcohol
Specific Gravity (g/ml)	0.79 @ 20°C
pH	Not Applicable
Boiling Range/Point (°C/F)	82°C (180°F)
Flash Point (PMCC) (°C/F)	12°C +/-1°C (54°F)
Explosion Limits (%)	LEL: 2.0; UEL: 12.7
Solubility in Water	Completely soluble
Evaporation Rate BuAc=1	2.3
Vapor Pressure	44 mmHg @ 25°C

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions. Heat and sunlight can contribute to instability.
Conditions to Avoid	Heat, sparks, open flames, strong oxidizing agents, and incompatibles.
Incompatibilities	Heat, flame, strong oxidizers, acetaldehyde, acids, chlorine, ethylene oxide, hydrogen-palladium combination, hydrogen peroxide-sulfuric acid combination, potassium tert-butoxide, hypochlorous acid, isocyanates, nitroform, phosgene, aluminum, oleum and perchloric acid.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Data	Oral toxicity: Rat LD50 (main ingredient): 5045 mg/Kg Inhalation toxicity: Rat LC50: 16000 ppm/8 hours Dermal toxicity: Rabbit LD50 (main ingredient): 12.8 mg/Kg
Chronic/Subchronic Data	Skin irritation: (main ingredient) rabbit skin mild irritation. Eye irritation: Moderate irritant; no permanent damage.
Additional Data	None known.

12. ECOLOGICAL INFORMATION

Mobility	No data available.
Persistence/Degradability	The product is readily biodegradable under aerobic conditions.
Bio-accumulation	Product is not expected to bio accumulate.
Ecotoxicity	The LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Product Disposal	Dispose of waste and unused material in accordance with local, state and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Container Disposal	Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Dispose of containers with care.

14. TRANSPORT INFORMATION

DOT Ground:	Flammable Liquid
UN Proper Shipping Name	Isopropanol
UN Class	Hazard Class 3
UN Number	UN1219
UN Packaging Group	II
N.O.S. 1:	Not applicable.
N.O.S. 2:	Not applicable.
Subsidiary Risks	None.
CERCLA RQ	None.
Marine Pollutant	None.

15. REGULATORY INFORMATION

TSCA Sec.12(b) Export Notification	Toxic Substance Control Act (TSCA) Section 12(b) Export Notification (40CFR 707, Subt D) Inventory status: All ingredients of this product are listed on the TSCA inventory (See section 12(b) for the CAS numbers)
RCRA Hazard Waste No	Not Regulated.
CRCLA	No.
California Proposition 65	This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.
SARA TITLE III-Section 311/312 Categorization (40 CFR 370)	Immediate, delayed, flammability hazard.
SARA TITLE III-Section 313 (40 CFR 372)	This product does contain a chemical which is listed in section 313 at or above reportable concentrations.

16. OTHER INFORMATION

NFPA Rating- FIRE	3
NFPA Rating- HEALTH	1
NFPA Rating- REACTIVITY	0
NFPA Rating- SPECIAL	None.
Revisions Highlighted	N/A
Abbreviations	CAS#: Chemical Abstract Services Number ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit STEL: Short Term Exposure Limit NTP: National Toxicology Program IARC: International Agency for Research on Cancer

16. OTHER INFORMATION

R: Risk
S: Safety
LD50: Lethal Dose 50%
LC50: Lethal Concentration 50%
BOD: Biological Oxygen Demand
Koc: Soil Organic Carbon Partition Coefficient.
TLm: Median Tolerance Limit

Disclaimer

The data contained herein is based on information that company believes to be reliable, but no expressed or implied warranty is made with regard to the accuracy of such data or its suitability for a given situation. Such data relates only to the specific product described and not to such products in combination with any other product and no agent of gotparts747 is authorized to vary any of such data. Gotparts747 and its agents disclaim all liability for any action taken or foregone on reliance upon such data.
