



Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Isopropyl Alcohol Cleaner

Product Number (s): 03201

Manufactured By:

CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-4620
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Clear liquid, alcohol odor

DANGER:

Flammable. Contents Under Pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

EYE: Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

SKIN: May cause mild skin irritation. Symptoms may include redness, burning, drying and cracking of the skin.

INHALATION: Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Moderate amounts may cause irritation to the throat. Breathing large amounts may lead to central nervous system depression. Symptoms may include drowsiness, dizziness, fatigue, nausea or unconsciousness.

INGESTION: Swallowing small amounts of this material is not likely to cause harmful effects. Swallowing large amounts may be harmful and may irritate the gastrointestinal tract. If this material gets into the lungs during swallowing or vomiting, it may cause lung inflammation and other lung injury.

CHRONIC EFFECTS: Prolonged or repeated exposure may cause dry skin, low blood pressure, temporary changes in the liver, respiratory depression and effects on heart rate.

TARGET ORGANS: Animal studies have shown some organ effects, but the relevance to humans is unknown.

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Isopropyl alcohol (IPA)	67-63-0	70 - 80
1,1-Difluoroethane (HFC-152a)	75-37-6	20 - 30

Section 4: First Aid Measures

- Eye Contact:** Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.
- Skin Contact:** Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.
- Inhalation:** Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.
- Ingestion:** Contact a physician, medical facility or poison control center for advice about whether to induce vomiting.
- Note to Physicians:** This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6)).

Flash Point:	54 F	Upper Explosive Limit:	12.0
Autoignition Temperature:	750 F	Lower Explosive Limit:	2.0

Suitable Extinguishing Media: Class B extinguishing agents, such as alcohol resistant foam, carbon dioxide, dry chemical

Products of Combustion: oxides of carbon

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear

appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Do not use near sparks, flames or other sources of ignition. Avoid static electricity.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Isopropyl alcohol	400	500(v)	200	400	NE		ppm
1,1-Difluoroethane (HFC-152a)	NE	NE	NE	NE	1000	AIHA	ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations

Respiratory Protection: None required for normal work where adequate ventilation is provided. Use a NIOSH-approved cartridge respirator with organic vapor cartridge if vapors exceed exposure limits. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as PVA or Neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid

Color: clear, colorless

Odor: alcohol odor

Specific Gravity: 0.79

Initial Boiling Point: 180 F

Freezing Point: - 128 F

Vapor Pressure: 33 mm Hg @ 68 F

Vapor Density: 2.07 (air = 1)

Evaporation Rate: very fast

Solubility: Miscible

pH: NA

Volatile Organic Compounds: wt %: 74.9 g/L: 591.7 lbs./gal: 4.93

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Do not use with aluminum equipment at temperatures above 120 F.

Incompatible Materials: Acids, aldehydes, alkalis, amines, chlorinated hydrocarbons, ethylene oxide, halogens, isocyanates, strong acids and strong oxidizing agents

Hazardous Decomposition Products: Oxides of carbon

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

ACUTE EFFECTS

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Isopropyl alcohol	LD50	4396 mg/kg	Oral	Rat
Isopropyl alcohol	LD50	12800 mg/kg	Dermal	Rabbit
Isopropyl alcohol	LC50	72.6 mg/L/4H	Inhalation	Rat

CHRONIC EFFECTS

Carcinogenicity:

	<u>Component</u>	<u>Result</u>
OSHA:	None listed	
IARC:	Isopropyl alcohol	Group 3: Not classifiable
NTP:	None listed	

Mutagenicity: No data available

Other: No data available

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: Isopropyl alcohol – 96 Hr LC50 fathead minnow: 94900 mg/L (flow-through)
5 min EC50 Photobacterium phosphoreum: 35390 mg/L

Persistence / Degradability: Oxidizes rapidly by photo-chemical reactions in air. Material is readily biodegradable.

Bioaccumulation / Accumulation: Not expected to bioaccumulate significantly.

Mobility in Environment: Dissolves in water. If product enters soil, it will be highly mobile and may contaminate groundwater.

Section 13: Disposal Considerations

Disposal: The liquid product is a RCRA hazardous waste for the characteristic of ignitability with a waste code of D001. (See 40 CFR Part 261.20 – 261.33)
Aerosol containers should be emptied and depressurized before disposal. Empty containers may be recycled. Any liquid product should be managed as a hazardous waste.

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:	Fire Hazard	Yes
	Reactive Hazard	No
	Release of Pressure	Yes
	Acute Health Hazard	Yes
	Chronic Health Hazard	No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: **None**

State Right to Know:

New Jersey: 67-63-0, 75-37-6
Pennsylvania: 67-63-0, 75-37-6
Massachusetts: 67-63-0, 75-37-6
Rhode Island : 67-63-0, 75-37-6

Additional Regulatory Information: This product complies with Consumer Products VOC regulations as an Electronic Cleaner.

Section 16: Other Information

NFPA: Health: 1 Flammability: 3 Reactivity: 0
HMIS: Health: 1 Flammability: 3 Reactivity: 0 PPE: B

Prepared By: Michelle Rudnick
CRC #: 921
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Changes since last revision: Propellant change

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS: Chemical Abstract Service NA: Not Applicable
ppm: Parts per Million ND: Not Determined
TCC: Tag Closed Cup NE: Not Established
PMCC: Pensky-Martens Closed Cup g/L: grams per Liter
PPE: Personal Protection Equipment lbs./gal: pounds per gallon
TWA: Time Weighted Average STEL: Short Term Exposure Limit
OSHA: Occupational Safety and Health Administration
ACGIH American Conference of Governmental Industrial Hygienists
NIOSH National Institute of Occupational Safety & Health