

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

152HF 152HF HALIDE FREE FLUX

Florida Cirtech Inc.
1309 N. 17th. Ave.
Greeley, CO 80631
USA

Company Phone Number: 970-346-8002
Website: www.floridacirtech.com

Emergency Phone Number: 800-535-5053

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Signal Word: WARNING
Hazard Type: Flammable
Physical State: Liquid
Color: Clear
Odor: Alcohol
Likely Exposure Routes: Eyes, Ingestion, Inhalation, Skin

Exposure Effects

Inhalation: May cause physical discomfort to the respiratory tract.
Eyes: Causes severe irritation (tears, blurred vision and redness) May result in permanent eye damage.
Ingestion: May cause nausea and vomiting. May cause irritation to the mouth, throat and stomach.
Skin: Prolonged contact may cause mild skin irritation.
Target Organs: Not Determined
Potential Carcinogens as listed by OSHA, IARC, or NTP: NONE
Other Possible Health Effects: See Section 11 for more information.
Potential Environmental Effects: Not considered to be harmful to aquatic life.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight Percentage
Isopropanol	67-63-0	50-70%
Ethanolamine	141-43-5	<5%

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. Get medical attention if symptoms occur.
Eyes: Immediately flush with water for at least 15 minutes or until the chemical is removed.

Ingestion: If conscious, rinse mouth with water. Seek medical advice on whether to induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Skin: Wash off immediately with soap and water. If clothing is contaminated, remove and launder before reuse.

Special Instructions for physicians: Follow usual and customary procedures

SECTION 5: FIRE FIGHTING MEASURES

Fire fighting measures: Standard procedure for chemical fires.

Fire fighter protection: Vapors and fumes may be irritating and toxic. Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear.

Suitable extinguishing media: Carbon dioxide, dry chemical, foam or water spray.

Unsuitable extinguishing media: Not applicable

As with any chemical fire, combustion products of unknown toxicity are always possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8.

Containment methods: If possible, stop further leakage of the material. Contain spilled material by diking with non-flammable diking materials.

Clean-Up methods: Absorb spilled liquid in a suitable material. Sweep or vacuum material into disposal containers.

Environmental precautions: This material does not present a substantial contamination threat to the environment.

Spill reporting requirements: Spills of this material do not need to be reported to the National Response Center.

SECTION 7: HANDLING AND STORAGE

Handling: Keep away from heat, sparks and flame. Use grounding when transferring this material to prevent static discharge. Avoid eye, skin, and clothing contact. Do not inhale mist or vapors. Do not taste or swallow. Use only with adequate ventilation.

Storage: Keep container closed when not in use. Avoid elevated and freezing temperatures.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines	OSHA		ACGIH	
	TWA	STEL	TWA	STEL
Material Name				
Isopropanol	400 ppm	NE	400 ppm	500 ppm
Ethanolamine	3 ppm	6 ppm	3 ppm	6 ppm

General Hygiene Considerations: Discard contaminated gloves after use. Have eye-wash facilities in the immediate vicinity. Work in adequately ventilated area. Do not breathe vapors or mist. Minimize any contact with any chemical.

Respiratory Protection: No special respiratory equipment is needed.

Eye/Face Protection: Wear safety glasses when handling this material.

Skin Protection: Wear nitrile or latex gloves. Wear protective clothing.

Engineering Controls: Work in well ventilated areas. Do not breathe vapors or mist.

Other Protective Equipment: Eye wash station and safety shower should be available in immediate work area. Select additional

protective equipment based upon potential for exposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Clear	VOC Percentage:	80%
Physical State:	Liquid	Evaporation Rate:	N/A
Odor:	Alcohol	Odor Threshold:	Not Determined
Melting Point:	Not Determined	Coeff. Water/Oil Dist.:	Not Determined
Boiling Point:	190 F	Lower Explosive Limit:	NE
Specific Gravity:	.93	Upper Explosive Limit:	NE
pH:	6-8	Flash Point:	Not Established
Vapor Pressure:	Not Determined	Solubility:	Complete
Vapor Density:	Not Determined		

SECTION 10: STABILITY AND REACTIVITY

Stability	Stable
Conditions to Avoid:	Heat, sparks, open flames
Incompatible Materials:	Strong Oxidizers
Hazardous decomposition products:	Carbon Dioxide, Carbon Monoxide and HCl gas.
Possibility of hazardous reactions:	None expected.

SECTION 11: TOXICOLOGY INFORMATION

ACUTE EFFECTS

Dermal Toxicity LD50:	the main component(s)
Oral Toxicity LD50:	None of the components of this product are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.
Inhalation Toxicity:	Mildly irritating.
Eye Irritation:	Severely irritating.
Skin Irritation:	Not Determined
Sensitization:	

CHRONIC EFFECTS

Carcinogenicity:	Not Determined
Mutagenicity:	Not Determined
Reproductive Effects:	
Teratogenicity:	
Synergistic Products:	NONE

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Not determined
Persistence/Degradability:	Degradation is expected under aerobic and anaerobic conditions.
Bioaccumulation/Accumulation:	the main component(s)
Mobility in Environment:	Appreciable volatilization is expected from water to air.

SECTION 13: DISPOSAL CONSIDERATIONS

Product is a RCRA Hazardous Waste? D001

Dispose of in accordance with federal, state, and local regulations.

SECTION 14: TRANSPORT INFORMATION

US D.O.T. and Canadian TDG (ground)

Proper Shipping Description:

FLAMMABLE LIQUIDS, n.o.s. (ISOPROPANOL, ETHANOLAMINE), 3, UN1993, PG II

ICAO (air)

Proper Shipping Description: See US D.O.T.

IMDG (water)

Proper Shipping Description: See US D.O.T.

SECTION 15: REGULATORY INFORMATION

FEDERAL REGULATORY INFORMATION

All components are listed in the EPA Toxic Substances Control Act (TSCA) Chemical Substance

Title III SARA Section 302

Product contains materials subject to reporting under SARA Section 302? NO

CERCLA

Product contains materials subject to reporting under CERCLA (40 CFR302.4)? NO

Title III SARA Section 313

Product contains materials subject to reporting under SARA Section 313? NO

Resource Conservation and Recovery Act (RCRA)

Product is a hazardous waste under RCRA (40 CFR 261.20)? D001

STATE REGULATORY INFORMATION

California Proposition 65

Product contains materials that are carcinogenic and/or can cause reproductive harm and is subject to warning NO and discharge requirements under the "Safe Water and Toxic Enforcement Act of 1986":

WHMIS Canadian Workplace Hazardous Material Information System

WHMIS Classification B2

SECTION 16: OTHER INFORMATION

NFPA 704: National Fire Protection Association

Health: 2 Fire: 3 Reactivity: 0

0 = Minimal hazard, 1 = Slight hazard, 2 = Moderate hazard, 3 = Severe hazard, 4 = Extreme hazard

IMO International Maritime Organization

EmS Code: F-E, S-E

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