

Revision Date: 9/2/2008

MATERIAL SAFETY DATA SHEET**Section 1: PRODUCT AND COMPANY IDENTIFICATION****Product Name: NC160 NO CLEAN FLUX**

FCT Assembly Inc.
 1309 N. 17th Ave.
 Greeley, CO 80631
 USA

Company Phone Number: 970-346-8002

Website: www.fctassembly.com

Emergency Phone Number: 800-535-5053**Section 2: HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW

Signal Word: WARNING

Hazard Type: Flammable

Appearance: clear to slight amber liquid

Color:

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.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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	70-90%
Mixed Aliphatic Alkyl	1119-40-0	10-30%

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MATERIAL SAFETY DATA SHEET**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.

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MATERIAL SAFETY DATA SHEET**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines

Material Name	OSHA		ACGIH	
	TWA	STEL	TWA	STEL
Isopropanol	400 ppm	NE	400 ppm	500 ppm
Mixed Aliphatic Alkyl	NE	NE	NE	NE

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:		VOC Percentage:	80-90%
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:	180 F	Lower Explosive Limit:	2
Specific Gravity:	.825	Upper Explosive Limit:	12
pH:	3-4	Flash Point:	15
Vapor Pressure:	30	Solubility:	Complete
Vapor Density:	2.1		

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.

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MATERIAL SAFETY DATA SHEET**SECTION 11. TOXICOLOGY INFORMATION**

The toxicological data below is based on the main component(s)

ACUTE EFFECTS

Acute Oral Toxicity: Not Determined
 Acute Dermal Toxicity: Not Determined
 Acute Inhalation Toxicity: Not Determined
 Sensitizer: Not a sensitizer
 Acute Eye Irritation: Severely irritating.
 Acute Skin Irritation: Mildly irritating.

CHRONIC EFFECTS

Carcinogenicity: None of the components of this product are listed as a carcinogen by IARC, NTP, OSHA, or ACGI
 Mutagenicity: Not Determined
 Reproductive Effects: Not Determined
 Teratogenicity: Not Determined
 Synergistic Products: NONE

SECTION 12. ECOLOGICAL INFORMATION

The ecological data below is based on the main component(s)

ACUTE FISH RESULTS:

Species	Exposure	LC50
Not Determined		

ACUTE INVERTEBRATE RESULTS:

Species	Exposure	LC50	EC50
Not Determined			

AQUATIC PLANT RESULTS:

Species	Exposure	LC50/EC50
Not Determined		

Persistence/Degradability: Degradation is expected under aerobic and anaerobic conditions.
 Bioaccumulation/Accumulation: Not determined
 Mobility in Environment: Appreciable volatilization is expected from water to air.

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MATERIAL SAFETY DATA SHEET**SECTION 13. DISPOSAL CONSIDERATIONS**

Product is a RCRA Hazardous Waste? YES, 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, MIXED ALIPHATIC ALKYL), 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 Inventory:

Title III SARA Section 302Product contains materials subject to reporting under SARA Section 302? **NO**CERCLAProduct contains materials subject to reporting under CERCLA (40 CFR302.4) **NO**Title III SARA Section 313Product 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)? **YES, D001**

STATE REGULATORY INFORMATION

California Proposition 65Product contains materials that are carcinogenic and/or can cause reproductive harm and is subject to warning and discharge requirements under the "Safe Water and Toxic Enforcement Act of 1986": **NO**

WHMIS Canadian Workplace Hazardous Material Information System

WHMIS Classification: B2

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MATERIAL SAFETY DATA SHEET**SECTION 16. OTHER INFORMATION**

NFPA 704: National Fire Protection Association

Health: 1 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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