

# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

**RA2000 RINSE AID**

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

Company Phone Number: 970-346-8002  
Website: [www.floridacirtech.com](http://www.floridacirtech.com)

**Emergency Phone Number: 800-535-5053**

## SECTION 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Signal Word: WARNING  
Hazard Type: Corrosive  
Physical State: Liquid  
Color:  
Odor: Amine  
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: Causes damage to mouth, throat and stomach.  
Skin: Causes severe skin irritation and tissue damage.  
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
Ethanolamine	141-43-5	50-70%

## SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. Remove any contaminated clothing. If breathing is difficult, administer oxygen. Get medical attention.  
Eyes: Immediately flush with water for at least 15 minutes or until the chemical is removed. Get medical attention!  
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 large amounts of water. Get medical attention if irritation develops. 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: Neutralize spilled material. Pump spilled liquid into disposal container.

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: Use good industrial practices when handling. 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**

<u>Exposure Guidelines</u>	OSHA		ACGIH	
Material Name	TWA	STEL	TWA	STEL
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:		VOC Percentage:	100
Physical State:	Liquid	Evaporation Rate:	N/A
Odor:	Amine	Odor Threshold:	Not Determined
Melting Point:	Not Determined	Coeff. Water/Oil Dist.:	Not Determined
Boiling Point:	>200 F	Lower Explosive Limit:	NE
Specific Gravity:	.99	Upper Explosive Limit:	NE
pH:	>11	Flash Point:	75
Vapor Pressure:	N/A	Solubility:	Complete
Vapor Density:	N/A		

### SECTION 10: STABILITY AND REACTIVITY

Stability	Stable
Conditions to Avoid:	Elevated temperatures
Incompatible Materials:	Strong Acids
Hazardous decomposition products:	Upon thermal decomposition carbon oxides and nitrogen oxides may form
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:	Severely 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:	Not determined

### SECTION 13: DISPOSAL CONSIDERATIONS

Product is a RCRA Hazardous Waste?	D002
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:

ETHANOLAMINE, MIXTURE, 8, UN2491, PGIII

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)? D002

### 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 E

## SECTION 16: OTHER INFORMATION

NFPA 704: National Fire Protection Association

Health: 3 Fire: 2 Reactivity: 0

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

IMO International Maritime Organization

EmS Code: F-A, S-B

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