



## MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/19/2012

REVISION NUMBER: 2

DATE PRINTED: 04/19/2012

PREPARED BY:

EH&S DEPARTMENT

### 1. CHEMICAL PRODUCT

PRODUCT NAME: **RLT-216, Steam Condensate Corrosion Inhibitor**  
PRODUCT CODE: 120356

NFPA/HMIS HAZARD CODES(minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 2/2

Fire: 2/2

Reactivity: 0/0

Special/Protective Equipment: CORR/B

NAME OF THE MANUFACTURER: Rochester Midland Corporation  
155 Paragon Drive  
Rochester, New York 14624  
USA

Emergency Phone:  
INFOTRAC: 1-800-535-5053  
OUTSIDE US: 1-352-323-3500

### 2. HAZARDS IDENTIFICATION

#### EFFECTS FROM ACUTE EXPOSURE:

**INGESTION:** May be harmful if swallowed. May be fatal if swallowed. May cause severe irritation. Nausea. Vomiting. Abdominal pain. May cause burns to mucous membranes of mouth, throat, and digestive tract.

**SKIN CONTACT:** Causes severe skin irritation. May cause skin burns.

**INHALATION:** May be harmful if inhaled.

**EYE CONTACT:** Causes severe eye irritation. May cause permanent eye damage. May cause blindness.

**CHRONIC EFFECTS:** Sensitizer. Prolonged contact may cause dryness and irritation.

**EFFECTS/CARCINOGENICITY:** None listed under OSHA, IARC, or NTP.

**ROUTES OF ENTRY:** Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	%	ACGIH TLV	OSHA PELs
CYCLOHEXYLAMINE 108-91-8	58 - 62	10 ppm	Not applicable

### 4. FIRST AID MEASURES

**INGESTION:** DO NOT INDUCE VOMITING. Drink several glasses of water or milk. Get immediate medical attention.

**SKIN:** Flush with water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention.

**INHALATION:** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

**EYES:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**NOTES TO PHYSICIAN:** None.

### 5. FIRE AND EXPLOSION HAZARD DATA

## **5. FIRE AND EXPLOSION HAZARD DATA**

<b>FLASH POINT:</b>	<b>(F):</b> 128 F (TCC) <b>(C):</b> Not determined
<b>METHOD:</b>	TCC
<b>FLAMMABLE LIMITS IN AIR</b>	
<b>LOWER (%):</b>	No data
<b>UPPER (%):</b>	No data
<b>SENSITIVITY TO MECHANICAL IMPACT(Y/N):</b>	NO
<b>SENSITIVITY TO STATIC DISCHARGE:</b>	Sensitivity to static discharge is not expected.
<b>SUITABLE EXTINGUISHING MEDIA:</b>	Water. Alcohol foam. Dry chemical.
<b>FIRE FIGHTING PROCEDURES:</b>	Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

## **6. ACCIDENTAL RELEASE MEASURES**

### **SPILL PROCEDURES:**

<b>SMALL SPILLS:</b>	Pick up with absorbant material.
<b>LARGE SPILLS:</b>	Keep out of drains, sewers, streams, or other bodies of water. Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.

<b>PERSONAL PRECAUTIONS:</b>	Not applicable
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Not applicable
<b>METHODS FOR CLEANING UP:</b>	Not applicable

## **7. HANDLING AND STORAGE**

<b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:</b>	Store in a cool, dry area. Store in a well ventilated area. Do not store near heat, sparks or flame. Keep container closed when not in use. Do not breathe mist or vapors. Avoid contact with eyes, skin and clothing. DO NOT pressurize, weld, or heat containers.
<b>OTHER PRECAUTIONS:</b>	Empty containers may retain product residue, follow MSDS/label precautions even after container is emptied. Do not reuse container.
<b>SPECIFIC USE(S):</b>	Not applicable.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **PROTECTIVE EQUIPMENT:**



<b>EXPOSURE CONTROLS:</b>	None known.
<b>RESPIRATORY PROTECTION:</b>	NIOSH approved organic vapor respirator.
<b>PROTECTIVE GLOVES:</b>	Chemical resistant gloves are recommended to minimize skin contact. Neoprene. Nitrile gloves. Butyl rubber.
<b>EYE PROTECTION:</b>	Goggles.
<b>OTHER PERSONAL PROTECTION EQUIPMENT:</b>	Appropriate protective clothing as needed to prevent skin contact. It is the responsibility of the end user of this product to determine level of PPE required that is consistent with safe use of this product.
<b>VENTILATION:</b>	General mechanical and/or local exhaust as needed to meet exposure limits if mist in air.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE AND ODOR:</b>	Light amber liquid. Ammonia odor.	
<b>BOILING POINT (F):</b>	212 F	<b>(C)</b> Not determined
<b>VAPOR PRESSURE:</b>	23 mm Hg @ 100 F	
<b>VAPOR DENSITY (AIR=1):</b>	> 1	
<b>SOLUBILITY IN WATER:</b>	Not determined	

## RLT-216, Steam Condensate Corrosion Inhibitor

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**SPECIFIC GRAVITY:** 0.92 - 0.95  
**VOC Content (%):** NE  
**EVAPORATION RATE:** < (BuAc = 1) : 1.26  
**PH:** 11.5 - 12.5

### 10. STABILITY AND REACTIVITY

**STABILITY DATA:** STABLE  
**POLYMERIZATION:** Will Not Occur.  
**HAZARDOUS DECOMPOSITION:** Ammonia. Oxides of Carbon. Oxides of Nitrogen.  
**INCOMPATIBILITY (MATERIALS TO AVOID):** Do not mix with: Acids. Aluminum. Galvanized steel. Strong oxidents, such as nitric acid, or hypochlorites.  
**CONDITIONS/HAZARDS TO AVOID:** None.

### 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** Not Established  
**EFFECTS OF CHRONIC EXPOSURE:** Not established.  
**OTHER TOXIC EFFECTS:** Not established.

### 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** No data at this time  
**CHEMICAL FATE INFORMATION:** No data at this time.  
**MOBILITY:** Not applicable.  
**PERSISTENCE/DEGRADABILITY:** Not applicable  
**BIOACCUMULATIVE POTENTIAL:** Not applicable  
**OTHER ADVERSE EFFECTS:** Not applicable

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHODS:** Dispose in accordance with Federal, State and Local regulations.

### 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

### 15. REGULATORY INFORMATION

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
CYCLOHEXYLAMINE 108-91-8	58 - 62	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
CYCLOHEXYLAMINE 108-91-8	58 - 62	Not Listed	10000 lb RQ = 10000 lb TPQ	Not Listed

The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	MARTK:
CYCLOHEXYLAMINE 108-91-8	58 - 62	Listed

## RLT-216, Steam Condensate Corrosion Inhibitor

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	NJRTK:
CYCLOHEXYLAMINE 108-91-8	58 - 62	Listed

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	PARTK:
CYCLOHEXYLAMINE 108-91-8	58 - 62	Listed

### 16. OTHER INFORMATION

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

\*\*\* END OF MSDS \*\*\*