

MATERIAL SAFETY DATA SHEET

REVISION DATE: 12/18/2013

REVISION NUMBER:

DATE PRINTED: 12/18/2013

PREPARED BY:

EH&S DEPARTMENT

CHEMICAL PRODUCT

PRODUCT NAME:

CS-28, Corrosion and Scale Inhibitor

PRODUCT CODE:

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

Health:

Fire:

0/0 ALK/C

Reactivity:

0/0

Special/Protective Equipment:

NAME OF THE **MANUFACTURER:** **Rochester Midland Corporation**

Emergency Phone: INFOTRAC: 1-800-535-5053

155 Paragon Drive

Rochester, New York 14624

OUTSIDE US: 1-352-323-3500

USA

HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION:

Severe burns to mucous membranes of mouth, throat and digestive tract.

SKIN CONTACT:

Causes moderate skin irritation. Prolonged contact causes severe burns which may not be

immediately painful or visible.

INHALATION:

Inhalation of spray mist may be irritating. Possible damage to mucous membranes of nose and

EYE CONTACT:

Causes severe eye burns. May cause permanent eye damage. May cause blindness.

CHRONIC EFFECTS: EFFECTS/CARCINOGENICITY: Dermatitis. Possible respiratory damage from inhalation of dust or mist. 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.

COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	%	ACGIH TLV	OSHA PELs
Sodium polyacrylate 9003-04-7	10 - 20	Not applicable	Not applicable
Sodium tolytriazole 64665-57-2	1 - 5	Not applicable	Not applicable

4. FIRST AID MEASURES

INGESTION:

DO NOT INDUCE VOMITING. Drink several glasses of water or milk. Contact Physician.

Never give anything by mouth to an unconcious person.

SKIN:

Flush with water for at least 15 minutes while removing all contaminated clothing and shoes. Continue rinsing until "slippery" feeling is gone. Get medical attention if irritation or burns

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.

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FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

(F): None to boiling (C): None

to boiling

METHOD:

TCC

FLAMMABLE LIMITS IN AIR

LOWER (%): UPPER (%):

No data No data

SENSITIVITY TO MECHANICAL IMPACT(Y/N):

SENSITIVITY TO STATIC DISCHARGE:

SUITABLE EXTINGUISHING MEDIA:

NO Sensitivity to static discharge is not expected.

As appropriate for surrounding fire-product is mostly water and will

not burn.

FIRE FIGHTING PROCEDURES:

Corrosive material. Avoid exposure to mist and splashes. Firefighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Cool exposed

containers with water spray.

ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

SMALL SPILLS: LARGE SPILLS: Reclaim as much as possible. Flush residue with water.

Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush

remainder with water.

PERSONAL PRECAUTIONS: **ENVIRONMENTAL PRECAUTIONS:** Not applicable Not applicable Not applicable

METHODS FOR CLEANING UP:

HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: DANGER: Concentrated, alkaline liquid. Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Store only in original container and keep closed. Store in a cool, dry

Store in a well ventilated area. Mix only with water.

OTHER PRECAUTIONS:

Do not reuse container. Empty containers may retain product residue, follow MSDS/label

precautions even after container is emptied. Read and follow label instructions.

SPECIFIC USE(S):

Not applicable.

EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS: RESPIRATORY PROTECTION:

PROTECTIVE GLOVES:

OTHER PERSONAL PROTECTION **EQUIPMENT:**

EYE PROTECTION:

None known.

Use approved NIOSH respiratory protection if TLV/PEL exceeded or if over exposure is likely. Nitrile, neoprene, or other appropriate gloves are recommended to minimize hand skin contact.

Goggles and face shield are recommended to minimize eye contact.

Appropriate protective clothing as needed to prevent skin contact. Liquid may penetrate leather shoes and cause delayed burns. Eyewash fountains and safety showers must be easily accessible. 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.

General mechanical and/or local exhaust as needed to meet exposure limits if mist in air. **VENTILATION:**

Corrosion resistant equipment recommended.

PHYSICAL AND CHEMICAL PROPERTIES

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PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

Clear brown liquid. Mild odor.

BOILING POINT (F):

VOC Content (%): **EVAPORATION RATE:** 212° F

(C) 100° C

VAPOR PRESSURE: VAPOR DENSITY (AIR=1): SOLUBILITY IN WATER: SPECIFIC GRAVITY: **BULK DENSITY:**

Not determined Not determined Not determined 1.191 - 1.231 10.09 lbs/gal Not determined Not determined 11 - 13.2

10. STABILITY AND REACTIVITY

STABILITY DATA:

STABLE

POLYMERIZATION:

Will Not Occur.

HAZARDOUS DECOMPOSITION:

If evaporated to dryness, as in a fire, may release: Oxides of Carbon. Oxides of Nitrogen.

Oxides of Phosphorus.

INCOMPATIBILITY (MATERIALS TO

AVOID):

PH:

Do not mix with acidic materials, Neutralizes active ingredients. May react violently with strong acids. Avoid contact with aluminum, zinc, other soft metals or galvanized metals. Reaction will generate hydrogen gas. This gas is flammable and/or explosive in presence of ignition source.

CONDITIONS/HAZARDS TO AVOID:

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL

No data at this time

INFORMATION:

CHEMICAL FATE INFORMATION: MOBILITY: PERSISTENCE/DEGRADABILITY: **BIOACCUMULATIVE POTENTIAL: OTHER ADVERSE EFFECTS:** Not applicable

No data at this time. Not applicable. Not applicable 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:
Sodium polyacrylate 9003-04-7	10 - 20	Listed	Not Listed	Listed	Not Listed
Sodium tolytriazole 64665-57-2	1 - 5	Listed	Listed	Listed	Not Listed

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PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Sodium polyacrylate 9003-04-7	10 - 20	Not Listed	Not Listed	Not Listed
Sodium tolytriazole 64665-57-2	1 - 5	Not Listed	Not Listed	Not Listed

None of the components of this material are included in the Massachusetts Substance List nor are present at or above reportable levels.

None of the components of this material are included in the New Jersey Substance List nor are present at or above reportable levels. None of the components of this material are included in the Pennsylvania Substance List nor are present at or above reportable levels.

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 ***