



MATERIAL SAFETY DATA SHEET

REVISION DATE: 02/13/2009 REVISION NUMBER: 4
DATE PRINTED: 02/13/2009 PREPARED BY: EH&S DEPARTMENT

1. CHEMICAL PRODUCT

PRODUCT NAME: **SCALE-OFF II**
PRODUCT CODE: 118325

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

Health: 3/3 Fire: 0/0
Reactivity: 1/1 Special/Protective Equipment: ALK/C

NAME OF THE MANUFACTURER: Rochester Midland Corporation
333 Hollenbeck Street
Rochester, New York 14621
Information: 585-336-2200
Emergency Phone:
INFOTRAC: 1-800-535-5053
OUTSIDE US: 1-352-323-3500

2. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION: Causes burns of the mouth, throat and stomach.
SKIN CONTACT: Causes moderate skin irritation. Prolonged contact causes severe burns which may not be immediately painful or visible.
INHALATION: Inhalation of mist will irritate mucous membranes. Inhalation of mist may cause damage to nasal and respiratory passages.
EYE CONTACT: Causes severe eye burns. May cause permanent eye damage. May cause blindness.
CHRONIC EFFECTS: Dermatitis. Possible respiratory damage from inhalation of dust or mist.
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
Tetrasodium EDTA (irritant) 64-02-8	10 max.	Not aplicable	Not aplicable
POTASSIUM HYDROXIDE 1310-58-3	6-10	NA	NA

4. FIRST AID MEASURES

INGESTION: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious 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 develop.
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: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.
NOTES TO PHYSICIAN: None.

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5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F): None (C): NA
METHOD: None

FLAMMABLE LIMITS IN AIR

- LOWER (%): NA
- UPPER (%): NA

SENSITIVITY TO MECHANICAL IMPACT(Y/N):

SENSITIVITY TO STATIC DISCHARGE:

SUITABLE EXTINGUISHING MEDIA:

FIRE FIGHTING PROCEDURES:

NO

Sensitivity to static discharge is not expected.

Water. Carbon dioxide.

Corrosive material. Avoid exposure to mist and splashes. Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Cool exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

SMALL SPILLS: Reclaim as much as possible.

LARGE SPILLS: Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush remainder with water.

PERSONAL PRECAUTIONS: NA

ENVIRONMENTAL PRECAUTIONS: NA

METHODS FOR CLEANING UP: NA

7. 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 area. Store in a well ventilated area. Contents may develop pressure upon prolonged storage; loosen closure cautiously before opening. 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. Contact with certain food sugars can release hazardous amounts of carbon monoxide gas in enclosed vessels. Read and follow label instructions.

SPECIFIC USE(S): NA

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



**EXPOSURE CONTROLS:
RESPIRATORY PROTECTION:**

Use in a well ventilated area.

None normally required. Use NIOSH approved alkaline respirator with dust/mist filter as needed to meet exposure limits if product is used in a manner which creates dust or mist above recommended exposure limits.

PROTECTIVE GLOVES:

Rubber or plastic gloves recommended to minimize skin contact.

EYE PROTECTION:

Goggles. Face shield.

**OTHER PERSONAL PROTECTION
EQUIPMENT:**

Rubber boots. 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.

VENTILATION:

General mechanical and/or local exhaust as needed to meet exposure limits if mist in air. Corrosion resistant equipment recommended.

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Clear pale yellow liquid.	
BOILING POINT (F):	As water	(C) NA
VAPOR PRESSURE:	As water	
VAPOR DENSITY (AIR=1):	As water	
SOLUBILITY IN WATER:	NA	
SPECIFIC GRAVITY:	1.16 - 1.17	
VOC Content (%):	0 (Per EPA Method 24)	
VOV Content (%):	NE	
EVAPORATION RATE:	As water	
PH:	NA	

10. STABILITY AND REACTIVITY

STABILITY DATA:	STABLE
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	Chlorine gas. Oxygen.
INCOMPATIBILITY (MATERIALS TO AVOID):	Mix only with water. Contact with acids and acid-containing cleaners, such as rust removers, vinegar, and toilet bowl cleaners may generate hazardous gases, such as chlorine, along with heat. Interaction with ammonia-containing materials may liberate ammonia gas or chloramine derivatives of ammonia. Do not mix with: Organic matter. Reducing agents. 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:	None.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	NE
EFFECTS OF CHRONIC EXPOSURE:	NE
OTHER TOXIC EFFECTS:	NE

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:	No data at this time
CHEMICAL FATE INFORMATION:	No data at this time.
MOBILITY:	NA
PERSISTENCE/DEGRADABILITY:	NA
BIOACCUMULATIVE POTENTIAL:	NA
OTHER ADVERSE EFFECTS:	NA

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:	Protect all personnel against release of chlorine gas.
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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

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15. REGULATORY INFORMATION

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
Tetrasodium EDTA (irritant) 64-02-8	10 max.	Listed	Listed	Listed	Not Listed
POTASSIUM HYDROXIDE 1310-58-3	6-10	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Tetrasodium EDTA (irritant) 64-02-8	10 max.	Not Listed	Not Listed	Not Listed
POTASSIUM HYDROXIDE 1310-58-3	6-10	1000 lb 454 kg	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Tetrasodium EDTA (irritant) 64-02-8	10 max.	Listed
POTASSIUM HYDROXIDE 1310-58-3	6-10	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:
POTASSIUM HYDROXIDE 1310-58-3	6-10	Listed

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:
POTASSIUM HYDROXIDE 1310-58-3	6-10	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:
POTASSIUM HYDROXIDE 1310-58-3	6-10	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 ***