



MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/13/2012

REVISION NUMBER: 8

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PREPARED BY:

EH&S DEPARTMENT

1. CHEMICAL PRODUCT

PRODUCT NAME: **F-110, Aluminum Safe Carbon Remover**

PRODUCT CODE: 101770

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
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: Severe burns to mucous membranes of mouth, throat and digestive tract.
SKIN CONTACT: Causes severe 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 throat.
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
SODIUM HYDROXIDE 1310-73-2	2 max.	Not applicable	2 mg/m ³
Ethanolamine 141-43-5	20 max.	3 ppm	3 ppm 6 mg/m ³
Sodium metasilicate 6834-92-0	5 - 10	Not applicable	Not applicable

4. FIRST AID MEASURES

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

F-110, Aluminum Safe Carbon Remover

4. FIRST AID MEASURES

NOTES TO PHYSICIAN: None.

5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: (F): None (C): None
METHOD: None
FLAMMABLE LIMITS IN AIR
LOWER (%): No data
UPPER (%): No data
SENSITIVITY TO MECHANICAL IMPACT(Y/N): NO
SENSITIVITY TO STATIC DISCHARGE: Sensitivity to static discharge is not expected.
SUITABLE EXTINGUISHING MEDIA: As appropriate for surrounding fire-product is mostly water and will not burn.
FIRE FIGHTING PROCEDURES: 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: Not applicable
ENVIRONMENTAL PRECAUTIONS: Not applicable
METHODS FOR CLEANING UP: Not applicable

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. 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): Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS: Use in a well ventilated area.
RESPIRATORY PROTECTION: Use approved NIOSH respiratory protection if TLV/PEL exceeded or if over exposure is likely.
PROTECTIVE GLOVES: Nitrile, neoprene, or other appropriate gloves are recommended to minimize hand skin contact.
EYE PROTECTION: Goggles and face shield are recommended to minimize eye contact.

F-110, Aluminum Safe Carbon Remover

OTHER PERSONAL PROTECTION EQUIPMENT:	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.
VENTILATION:	General mechanical and/or local exhaust as needed to meet exposure limits if mist in air. Corrosion resistant equipment recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Clear. Blue liquid. Slight detergent odor.	
BOILING POINT (F):	Not determined	(C) Not determined
VAPOR PRESSURE:	Not determined	
VAPOR DENSITY (AIR=1):	Not determined	
SOLUBILITY IN WATER:	Not determined	
SPECIFIC GRAVITY:	1.072 - 1.082 @ 70° F	
VOC Content (%):	15 (EPA Method 24)	
EVAPORATION RATE:	Not determined	
PH:	12.2 - 13.2	

10. STABILITY AND REACTIVITY

STABILITY DATA:	STABLE
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	Oxides of Carbon. Oxides of Nitrogen. Oxides of Sodium.
INCOMPATIBILITY (MATERIALS TO AVOID):	May react violently with strong acids. Neutralizes active ingredients.
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.
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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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PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
SODIUM HYDROXIDE 1310-73-2	2 max.	Listed	Listed	Listed	Not Listed
Ethanolamine 141-43-5	20 max.	Listed	Listed	Listed	Not Listed
Sodium metasilicate 6834-92-0	5 - 10	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
SODIUM HYDROXIDE 1310-73-2	2 max.	1000 lb 454 kg	Not Listed	Not Listed
Ethanolamine 141-43-5	20 max.	Not Listed	Not Listed	Not Listed
Sodium metasilicate 6834-92-0	5 - 10	Not Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
SODIUM HYDROXIDE 1310-73-2	2 max.	Listed
Ethanolamine 141-43-5	20 max.	Listed
Sodium metasilicate 6834-92-0	5 - 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:
SODIUM HYDROXIDE 1310-73-2	2 max.	Listed
Ethanolamine 141-43-5	20 max.	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:
SODIUM HYDROXIDE 1310-73-2	2 max.	Listed
Ethanolamine 141-43-5	20 max.	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:
SODIUM HYDROXIDE 1310-73-2	2 max.	Listed
Ethanolamine 141-43-5	20 max.	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 ***