



## MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/17/2012  
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REVISION NUMBER: 4  
 PREPARED BY: EH&S DEPARTMENT

### 1. CHEMICAL PRODUCT

**PRODUCT NAME:** **K-CLEAN**  
**PRODUCT CODE:** 119090

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 Emergency Phone:  
155 Paragon Drive INFOTRAC: 1-800-535-5053  
Rochester, New York 14624 OUTSIDE US: 1-352-323-3500  
USA

### 2. HAZARDS IDENTIFICATION

**EFFECTS FROM ACUTE EXPOSURE:**

**INGESTION:** Severe burns to mucous membranes of mouth, throat and digestive tract.  
**SKIN CONTACT:** Prolonged contact causes severe burns which may not be immediately painful or visible.  
**INHALATION:** Inhalation of mist will irritate mucous membranes. Can cause damage to mucous membranes of nose, throat, respiratory tract and lung tissue depending on severity of exposure.  
**EYE CONTACT:** Causes severe eye burns. Corrosive to eye tissue and may cause severe damage and blindness.  
**CHRONIC EFFECTS:** Irritant 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<br>CAS#      | %       | ACGIH TLV      | OSHA PELs      |
|----------------------------------|---------|----------------|----------------|
| POTASSIUM HYDROXIDE<br>1310-58-3 | 40 - 50 | Not applicable | Not applicable |

### 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. If vomiting occurs, give additional water.

**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:** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

**EYES:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

**NOTES TO PHYSICIAN:** None.

# K-CLEAN

## 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:          | Product 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. |

## 6. ACCIDENTAL RELEASE MEASURES

### SPILL PROCEDURES:

|               |   |
|---------------|---|
| SMALL SPILLS: | Pick up with absorbant material. Flush residue with water.  |
| 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: Corrosive. Avoid contact with skin and eyes. Store only in original container and keep closed. Store in a cool, dry area. |
| OTHER PRECAUTIONS:                               | Keep out of reach of children.  |
| SPECIFIC USE(S):                                 | Not applicable.   |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### PROTECTIVE EQUIPMENT:



|                                      |  |
|--------------------------------------|--|
| EXPOSURE CONTROLS:                   | None known.  |
| 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.   |
| OTHER PERSONAL PROTECTION EQUIPMENT: | Appropriate protective clothing as needed to prevent skin contact. 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. Dark brown liquid. Mild odor. |            |
| BOILING POINT (F):     | 212° F                               | (C) 100° C |
| VAPOR PRESSURE:        | 15.7 mm Hg @ 22.2° C                 |            |
| VAPOR DENSITY (AIR=1): | 0.625                                |            |
| SOLUBILITY IN WATER:   | Not determined                       |            |
| SPECIFIC GRAVITY:      | 1.437 - 1.447                        |            |
| VOC Content (%):       | 0                                    |            |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**EVAPORATION RATE:** (BuAc=1) 1:26  
**PH:** 12.5 (1% soln)

**10. STABILITY AND REACTIVITY**

**STABILITY DATA:** STABLE  
**POLYMERIZATION:** Will Not Occur.  
**HAZARDOUS DECOMPOSITION:** Oxides of Carbon. Oxides of Nitrogen.  
**INCOMPATIBILITY (MATERIALS TO AVOID):** Do not mix with acidic materials. Avoid contact with aluminum, zinc, other soft metals or galvanized metals.  
**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<br>CAS#      | %       | TSCA:  | EINECS: | Canada DSL: | CA PROP 65: |
|----------------------------------|---------|--------|---------|-------------|-------------|
| POTASSIUM HYDROXIDE<br>1310-58-3 | 40 - 50 | Listed | Listed  | Listed      | Not Listed  |

| PRODUCT COMPOSITION<br>CAS#      | %       | CERCLA:           | SARA 302:  | SARA 313:  |
|----------------------------------|---------|-------------------|------------|------------|
| POTASSIUM HYDROXIDE<br>1310-58-3 | 40 - 50 | 1000 lb<br>454 kg | Not Listed | Not Listed |

| PRODUCT COMPOSITION<br>CAS#      | %       | Canada WHMIS: |
|----------------------------------|---------|---------------|
| POTASSIUM HYDROXIDE<br>1310-58-3 | 40 - 50 | Listed        |

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

# K-CLEAN

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| <b>PRODUCT COMPOSITION<br/>CAS#</b> | <b>%</b> | <b>MARTK:</b> |
|-------------------------------------|----------|---------------|
| POTASSIUM HYDROXIDE<br>1310-58-3    | 40 - 50  | Listed        |

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

| <b>PRODUCT COMPOSITION<br/>CAS#</b> | <b>%</b> | <b>NJRTK:</b> |
|-------------------------------------|----------|---------------|
| POTASSIUM HYDROXIDE<br>1310-58-3    | 40 - 50  | Listed        |

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

| <b>PRODUCT COMPOSITION<br/>CAS#</b> | <b>%</b> | <b>PARTK:</b> |
|-------------------------------------|----------|---------------|
| POTASSIUM HYDROXIDE<br>1310-58-3    | 40 - 50  | 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 \*\*\***