MATERIAL SAFETY DATA SHEET: RED STREAK (32 OZ), M/M

Section I - General Information

Date of Issue: 10/15/2007 12:00:00 AM
Supercedes: 11/3/2005 12:00:00 AM

Chemical Name & Synonyms:
Potassium Hydroxide

Trade Name & Synonyms:
RED STREAK (32 OZ), M/M

Chemical Family:
Aqueous caustic solution

Manufacturer Name:
CHEMSEARCH DIV. OF NCH CORP.

Manufacturer Address:
BOX 152179
IRVING, TX 75015

Prepared By:
M MCDOWELL/CHEMIST

Product Code Number: 0058

Emergency Phone Number: 800-424-9300

Section II - Hazardous Ingredients

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

<table>
<thead>
<tr>
<th>Chemical Name (Ingredients)</th>
<th>Hazard</th>
<th>TLV</th>
<th>PEL</th>
<th>STEL</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTASSIUM HYDROXIDE</td>
<td>CORROSIVE</td>
<td>2 mg/m³ $1</td>
<td>2 mg/m³ $2</td>
<td>2 mg/m³ $1</td>
<td>1310-58-3</td>
</tr>
</tbody>
</table>

Section III - Physical Data

Boiling Point (°F): 235-292
Vapor Pressure (mm Hg): 0.0001
Vapor Density (Air=1): 1.46
pH @ 100%: 11.0
% Volatile by Volume: 50
H₂O Solubility: Complete

Section IV - Fire and Explosion Hazard

Method Used: N/A
UEL: 75%
NFPA 704 Hazard Rating: 4-Extreme, Health: 3, Flammability: 1, Instability: 2, Special:
NFPA 30B Aerosol Level: N/A

Special Fire Fighting Procedures:
Firefighters should wear a self-contained breathing apparatus and full protective gear. Extinguishing media should be chosen based on the nature of the surrounding fire. Cool fire-exposed containers with water spray to prevent bursting.

Unusual Fire and Explosion Hazards:
The use of water spray (fog), while effective, may cause frothing and foaming. Never use a water jet as this will just spread the fire. Prolonged contact with reactive metals, such as Aluminum, Copper, Brass, Bronze, Chromium, Magnesium, Tin, Zinc, and alloys, can cause the formation of flammable Hydrogen Gas which can form an explosive mixture with air. Use care as spills may be slippery.

Section V - Health and Hazard Data

Threshold Limit Value:
2 mg/m³ as Ceiling Limit for Potassium Hydroxide.

Effects of Overexposure:
Acute: (Short Term Exposure)
EYE CONTACT: Corrosive. Causes burns, corneal damage, and possible blindness.
SKIN CONTACT: Corrosive. Causes burns and possible deep ulcerations or scarring. Burns may not be immediately visible or painful.
INHALATION: Causes burns to the respiratory tract, nose, mouth, and throat with discomfort, nasal discharge, sneezing, coughing, rapid heartbeat, and chest pain. Inhalation of mist may cause chemical pneumonitis which can cause damage and may be fatal.
INGESTION: Corrosive. Causes burns to the mouth, throat, esophagus, and stomach with nausea and pain. Symptoms may include vomiting of blood. Blood loss through damaged tissue can lead to low blood pressure and shock, and may be fatal.

Chronic: (Long Term Exposure)
May cause bronchopneumonia, chemical pneumonitis, pulmonary edema, delayed scarring of the airway, and other affected organs. Medical conditions aggravated by exposure are pre-existing respiratory and skin conditions such as asthma, emphysema, and dermatitis. TARGET ORGANS: None known. There is no primary route of entry into the body. The primary routes of exposure are skin and eye contact.

Primary Routes of Entry:
[ ] Inhalation  [ ] Ingestion  [ ] Absorption

Emergency First Aid Procedures:

Inhalation:
Remove from the area to fresh air. If not breathing, clear the airway and start mouth to mouth artificial respiration. Get immediate medical attention.

Eye Contact:
Immediately rinse the eyes with water. Remove any contact lenses and continue flushing for at least 15 minutes. Hold the eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Get immediate medical attention.
Section VI - Toxicity Information

- Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:
  - [ ] AARC
  - [ ] NTP
  - [ ] OSHA
  - [ ] ACGIH
  - [ ] Other

VOC content: 0% by weight, 0% by volume, 0 g/l

Section VII - Reactivity Data

- Stability
  - [V] Stable
  - [ ] Unstable

- Conditions to Avoid:
  Mixture with water and acids can cause splattering and release large amounts of heat. Avoid heat, hot surfaces, sparks, and open flames.

- Hazardous Polymerization
  - [V] Will not occur
  - [ ] May occur

- Conditions to Avoid:
  N/A

Section VIII - Spill Or Leak Procedures

- Steps to be Taken if Material is Released or Spilled:
  Wear appropriate protective clothing. Use care as spills may be slippery. Shut off source of leak. Dike and contain spill. Absorb with an inert material and transfer all material into a properly labeled container for disposal. Prevent product from contaminating soil or from entering sewage and drainage systems and bodies of water. Use dilute acids such as Hydrochloric Acid or vinegar. Add cautiously while mixing. Wear appropriate protective clothing.

- Waste Disposal Method(s):
  Dispose of in accordance with all Federal, state, and local regulations.

- Neutralizing Agent:
  Use dilute acids such as Hydrochloric Acid or vinegar. Add cautiously while mixing. Wear appropriate protective clothing.

Section IX - Special Protection Information

- Required Ventilation:
  Local ventilation is recommended to control exposure from operations that can generate excessive levels of mists. Local ventilation is preferred, because it prevents dispersion into work areas by controlling it at its source.

- Respiratory Protection:
  Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's Respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). For concentrations above the TLV and/or PEL but less than 10 times these limits, a NIOSH approved half-facepiece respirator equipped with appropriate chemical cartridges may be used. For concentrations greater than 10 times the TLV and/or PEL, consult the NIOSH respirator decision logic found in publication No. 87-116 or ANSI Z88.2-1992.

- Glove Protection:
  Neoprene or nitrile rubber gloves should be worn. Ensure compliance with OSHA's Personal Protective Equipment (PPE) standard for hand protection, 29 CFR 1910.138.

- Eye Protection:
  Chemical goggles and a face shield should be worn when handling. Ensure compliance with OSHA’s Personal Protective Equipment (PPE) standard for eye and face protection, 29 CFR 1910.133.

- Other Protection:
  Wear protective clothing when handling. A safety shower and an eyewash station should be available.

Section X - Storage and Handling Information

- Storage Temperature
  - Max: 120°F
  - Min: 60°F

- Storage Conditions
  - [V] Indoors
  - [ ] Outdoors
  - [ ] Heated
  - [ ] Refrigerated

- Precautions to be Taken in Handling and Storing:
  Always store material in its original container in a cool, dry, well-ventilated area, out of direct sunlight. Do not store in aluminum or galvanized containers. Keep container tightly closed when not in use. Keep from freezing. If product freezes, allow it to slowly warm to room temperature and stir.
Section XI – Regulatory Information

Chemical Name: None.

CAS Number

Upper % Limit

Those Ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer. This MSDS is not intended for users in the state of California.

Section XII – References

2. OSHA PEL.
3. Vendor’s MSDS.
5. European Chemical Substances Information System (ESIS), International Uniform Chemical Information Database (IUCLID) Chemical Data Sheets.

All the components of this product are in compliance with the Toxic Substances Control Act (TSCA) and are either listed on the TSCA inventory or otherwise exempted from listing.

CHEMSEARCH DIV. OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage, or disposal of the product.

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