MATERIAL SAFETY DATA SHEET

PRODUCT CODE: 0320
OAKITE 32
211-A-79
HMIS 3 0 0 J

SECTION I

TRADE NAME OAKITE 32
CHEMICAL NAME NA-Mixture
AND SYNONYMS
MANUFACTURER’S NAME OAKITE PRODUCTS INC.
AND TELEPHONE NO. 50 Valley Road Berkeley Heights NJ 07922
ADDRESS
EMERGENCY TELEPHONE NUMBER: (800) 424-9300 (CHEMTREC)
(908) 464-6900 (8am-5pm)

SECTION II - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>% BY WT</th>
<th>TLV</th>
<th>PEL</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0007647010</td>
<td>25-35</td>
<td>5</td>
<td>5</td>
<td>ppm</td>
</tr>
</tbody>
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Hydrogen chloride(+) - (ceiling)
Non-hazardous ingredients


All component of this material are on the US TSCA Inventory.

(+) This product contains ingredient(s) identified in Section II with (+) which are subject to the reporting requirements of section 313 of SARA Title III and 40 CFR 372.

SECTION III - PHYSICAL DATA

| BOILING POINT (F) | 182 |
| VAPOR PRESSURE (mm Hg) | 25 |
| VAPOR DENSITY (Air=1) | 1.27 |
| SOLUBILITY IN WATER | Complete |
| EVAPORATION RATE (Water=1) | 1 |
| SPECIFIC GRAVITY (H2O=1) | 1.160 |
| Bulk Density | 9.7 lb/gal |
| PERCENT VOLATILE | |
| BY VOLUME(%) Excludes H2O | 0 |
| PH | <1 |

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NA - Not Applicable
NE - Not Established
APPEARANCE AND ODOR: Light to dark brown liquid; pungent odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used): NONE
FLAMMABLE LIMITS: LEL: NA  UEL: NA

EXTINGUISHING MEDIA: Use media suitable for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES: Wear Self-Contained Breathing Apparatus (SCBA).

UNUSUAL FIRE AND EXPLOSION HAZARDS: See Section VII.(WHMIS)
See Section VI.(U.S.)

SECTION V - HEALTH HAZARD INFORMATION

ROUTE(S) OF ENTRY: INHALATION: X  SKIN: X  INGESTION: X

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

SYMPTOMS/EFFECTS OF OVEREXPOSURE:
Severe irritation of the nose, mouth, and respiratory tract with coughing and a choking sensation. Severe skin burns. Eye contact causes severe or permanent damage. Chronic overexposure to mists or vapors may cause dental erosion.

FIRST AID

EYES: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get prompt medical attention.

SKIN: Immediately remove contaminated clothing. Wash skin with large amounts of water for at least 15 minutes. Get prompt medical attention. Wash clothing before reuse.

INGESTION: Contact local poison control center or physician IMMEDIATELY!

INHALATION: Move victim to fresh air and restore breathing if necessary. Stay with victim until emergency medical help arrives.

SECTION VI - REACTIVITY DATA

NA - Not Applicable  NE - Not Established
STABILITY: NORMALLY STABLE
Avoid extreme heat.

INCOMPATIBLE MATERIALS: Oxidizers, Strong alkalies. Contact with certain metals may yield explosive hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, Chlorine, Hydrogen.

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURES: Wear personal protective equipment (See Section VIII).
Ventilate area. Dilute with large amounts of water and neutralize with soda ash or lime.

WASTE DISPOSAL METHOD: Dispose of in accordance with Local State and Federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: If TLV is exceeded, or for symptoms of overexposure, wear a NIOSH-approved acid gas respirator.

EYEWEAR: If splash potential exists wear chemical splash goggles or faceshield.

CLOTHING/GLOVES: If potential for skin contact exists, wear neoprene or other chemical resistant gloves and apron or coveralls and/or foot coverings, as needed.

VENTILATION: Local exhaust may be necessary for some handling/use conditions. Specific needs should be addressed by supervisory or health/safety personnel.

SECTION IX - SPECIAL PRECAUTIONS

CORROSIVE. Store in closed container in cool well-ventilated area. NOTE: IF DILUTING (OR DISSOLVING) ALWAYS ADD THIS PRODUCT TO WATER SLOWLY AND WITH CONSTANT STIRRING. This product does not contain any carcinogens (at 0.1% or greater) as defined by IARC, NTP, or OSHA.

APPROVAL

NAME

TITLE

DATE

NA - Not Applicable

NE - Not Established