Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name

Recommended Use Drain Opener.

Supplier Address
KIK International
33 MacIntosh Blvd
Concord
Ontario
L4K 4L5
CA
Phone:1-800-424-9300
Fax:905-660-7333
Contact:Scott Walker
Email:swalker@kikcorp.com
Contact Phone1-479-845-2750

2. HAZARDS IDENTIFICATION

Emergency Overview

Corrosive
May cause skin and eye irritation

Appearance Colorless to pale yellow
Physical State Viscous liquid, Liquid.
Odor Bleach

Potential Health Effects

Principle Routes of Exposure Skin contact. Eye contact.

Acute Toxicity

Eyes Irritating to eyes.
Skin Irritating to skin.
Inhalation Not an expected route of exposure.
Ingestion Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects No known effect based on information supplied.

Aggravated Medical Conditions None known.

Environmental Hazard See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>60-100</td>
</tr>
<tr>
<td>Sodium hypochlorite</td>
<td>7681-52-9</td>
<td>5-10</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Myristamine oxide</td>
<td>3332-27-2</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact For minor skin contact, avoid spreading material on unaffected skin. In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Call a physician immediately.

Notes to Physician Treat symptomatically. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Protection of First-aiders Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated.

Flash Point Not applicable.

Suitable Extinguishing Media Dry chemical, CO₂ or water spray. Dry chemical, CO₂, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire control water for later disposal; do not scatter the material.

Uniform Fire Code

- Irritant: Liquid
- Oxidizer: Class 1--Solid
- CORROSIVE: BASE-LIQUID

This product contains a Class 1 Oxidizer as defined by the Uniform Fire Code

Hazardous Combustion Products Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Specific Hazards Arising from the Chemical Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.)

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health Hazard 3 Flammability 0 Stability 1 Physical and Chemical Hazards OX
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk.

Environmental Precautions
Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment
Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Methods for Cleaning Up
Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling
Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

Storage
Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>Ceiling: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
<td>IDLH: 10 mg/m³</td>
</tr>
<tr>
<td>1310-73-2</td>
<td>(vacated) Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment
Eye/Face Protection
Tightly fitting safety goggles.

Skin and Body Protection
Protective gloves.

Respiratory Protection
No protective equipment is needed under normal use conditions.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Detailed Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless to pale yellow.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>13.5</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor</td>
<td>Bleach.</td>
</tr>
<tr>
<td>Physical State</td>
<td>Viscous liquid Liquid</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Stability
Stable under recommended storage conditions.

Incompatible Products
Strong acids.

Conditions to Avoid
None known based on information supplied.

Hazardous Decomposition Products
Carbon oxides.

Hazardous Polymerization
Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Irritation
May cause eye irritation

LD50 Oral VALUE
mg/kg (rat) estimated

LD50 Dermal VALUE

LC50 Inhalation (DUST) VALUE

LC50 Inhalation (VAPOR) VALUE

Eye Contact
Irritating to eyes.

Skin Contact
Irritating to skin.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>-</td>
<td>= 1350 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

Chronic Toxicity

Chronic Toxicity
No known effect based on information supplied.

Carcinogenicity
The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

IARC: (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

Target Organ Effects
None known.
12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated. Very toxic to aquatic organisms.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>EC50: 0.095 mg/L (24 h)</td>
<td>LC50: 0.18 - 0.22 mg/L (96 h static) Oncorhynchus mykiss</td>
<td></td>
<td>EC50: 0.033 - 0.044 mg/L (48 h Static) Daphnia magna</td>
</tr>
<tr>
<td></td>
<td>Skeletonema costatum</td>
<td>LC50: 0.28 - 1 mg/L (96 h flow-through) Lepomis macrochirus</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50: 4.5 - 7.6 mg/L (96 h static) Pimephales promelas</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50: 0.06 - 0.11 mg/L (96 h flow-through) Pimephales promelas</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50: 0.05 - 0.771 mg/L (96 h flow-through) Oncorhynchus mykiss</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50: 0.4 - 0.8 mg/L (96 h static) Lepomis macrochirus</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50: 0.03 - 0.19 mg/L (96 h semi-static) Oncorhynchus mykiss</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td></td>
<td>LC50: 45.4 mg/L (96 h static) Oncorhynchus mykiss</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging
Dispose of in accordance with local regulations.

US EPA Waste Number
D002

California Hazardous Waste Codes
122

This product contains one or more substances that are listed with the State of California as a hazardous waste.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California EHW</th>
<th>California Carc</th>
<th>California Hazardous Waste</th>
<th>California Waste - Part 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>Toxic</td>
<td>Ignitable</td>
<td>Toxic</td>
<td>Ignitable, Reactive</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td></td>
<td></td>
<td>Toxic</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

Emergency Response Guide Number
154

DOT
Description
CONSUMER COMMODITY, ORM-D

TDG
Description
UN1760, CORROSIVE LIQUID, N.O.S.(SODIUM HYPOCHLORITE ), 8, III

MEX

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## 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Description</th>
<th>UN1760 CORROSIVE LIQUID, N.O.S.(SODIUM HYPOCHLORITE ), 8, III, MARINE POLLUTANT</th>
</tr>
</thead>
</table>

### ICAO

<table>
<thead>
<tr>
<th>Description</th>
<th>UN1760, CORROSIVE LIQUID, N.O.S.(SODIUM HYPOCHLORITE ), 8, III, MARINE POLLUTANT</th>
</tr>
</thead>
</table>

### IATA

<table>
<thead>
<tr>
<th>Description</th>
<th>UN1760, CORROSIVE LIQUID, N.O.S.(SODIUM HYPOCHLORITE ), 8, III, MARINE POLLUTANT</th>
</tr>
</thead>
</table>

### IMDG/IMO

<table>
<thead>
<tr>
<th>Description</th>
<th>UN1760, CORROSIVE LIQUID, N.O.S.(SODIUM HYPOCHLORITE ), 8, III, MARINE POLLUTANT</th>
</tr>
</thead>
</table>
15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL Not determined

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

- Acute Health Hazard: No
- Chronic Health Hazard: No
- Fire Hazard: No
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: No

Clean Water Act
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>100 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61).
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>100 lb</td>
<td></td>
</tr>
</tbody>
</table>

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

International Regulations

Mexico - Grade Minimum risk, Grade 0

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
WHMIS Hazard Class
D2B  Toxic materials
E    Corrosive material

16. OTHER INFORMATION

Prepared By          Product Stewardship
                      23 British American Blvd.
                      Latham, NY 12110
                      1-800-572-6501

Issuing Date         24-Jan-2013
Revision Date        24-Jan-2013
Revision Note        No information available

General Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet