1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: #3027 Heavy Duty Cleaner
GENERAL USE: Cleans moderate industrial soils and grease.
PRODUCT DESCRIPTION: General Purpose Cleaner
PRODUCT CODE: 3027-1-C4
CHEMICAL FAMILY: Solvent/detergent blend

DISTRIBUTOR
Fiberlock Technologies, Inc.
150 Dascomb Rd.
Andover, MA 01810
Customer Service: 978-623-9987

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS
Health:
Eye Irritation, Category 2A
Skin Irritation, Category 2

GHS LABEL
Exclamation mark

SIGNAL WORD: WARNING
HAZARD STATEMENTS
H319: Causes serious eye irritation.
H315: Causes skin irritation.
H303: May be harmful if swallowed.

PRECAUTIONARY STATEMENT(S)

Prevention:
P262: Do not get in eyes, on skin, or on clothing.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash hands thoroughly after handling.
P102: Keep out of reach of children.
P273: Avoid release to the environment.

Response:
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P302+P352: IF ON SKIN: Wash with plenty of water and soap.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:
P404: Store in a closed container.

Disposal:
P501: Dispose of contents/container in accordance with all local, state, and federal regulations.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Orange Liquid
IMMEDIATE CONCERNS: Eye & Skin irritant

POTENTIAL HEALTH EFFECTS

EYES: Irritating, and may injure eye tissue if not removed promptly.
SKIN: Skin irritant with prolonged or repeated contact.
SKIN ABSORPTION: None Expected.
INGESTION: Although of moderate to low toxicity, ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea, and possible death.
INHALATION: Mist is irritating to nose, throat and lungs.

REPRODUCTIVE TOXICITY

TERATOGENIC EFFECTS: None known.
CARCINOGENICITY: No listed substance
MUTAGENICITY: None known.
MEDICAL CONDITIONS AGGRAVATED: Previous skin conditions such as dermatitis may be aggravated.

ROUTES OF ENTRY: Eye, skin, ingestion.

CANCER STATEMENT: None

WARNING CAUTION LABELS: Irritant

PHYSICAL HAZARDS: None Expected.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonylphenol Ethoxylate</td>
<td>0 - 5</td>
<td>9016-45-9</td>
</tr>
<tr>
<td>Sodium Dioctyl Sulfosuccinate</td>
<td>0 - 5</td>
<td>577-11-7</td>
</tr>
<tr>
<td>Sodium Salt benzene, 1, 1-oxybis tetrapropylene derivatives, Sulfonated, Sodium Salts</td>
<td>0 - 5</td>
<td>119345-04-9</td>
</tr>
<tr>
<td>Sodium Silicate</td>
<td>0 - 2</td>
<td>6834-92-0</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>0 - 5</td>
<td>34590-94-8</td>
</tr>
<tr>
<td>Fragrance</td>
<td>0 - 1</td>
<td>N/A</td>
</tr>
<tr>
<td>Dye</td>
<td>0 - 0.05</td>
<td>N/A</td>
</tr>
<tr>
<td>Water</td>
<td>85 - 90</td>
<td>7732-18-5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Burning sensation with tearing, redness.

SKIN: Prolonged contact will cause irritation marked by redness, burning sensation.

SKIN ABSORPTION: Not Established
INGESTION: Irritation of mouth, throat, along with stomach upset, vomiting.

INHALATION: Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

ACUTE TOXICITY: Not Established

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: NA = Not Applicable
GENERAL HAZARD: NA = Not Applicable
EXTINGUISHING MEDIA: Not required. Water based material.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Avoid walking in product. Wipe up or otherwise flush small spills to sanitary sewer.
LARGE SPILL: Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

ENVIRONMENTAL PRECAUTIONS
WATER SPILL: Avoid discharges into open waterways.
LAND SPILL: Avoid discharge to soil.

GENERAL PROCEDURES: Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.

SPECIAL PROTECTIVE EQUIPMENT: Eye protection, rubber gloves, rubber boots to protect feet.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Close container after use.
HANDLING: Wear eye protection, rubber gloves when handling concentrate.
STORAGE: Store in area inaccessible to children.
STORAGE TEMPERATURE: Store at ambient temperatures.
STORAGE PRESSURE: Store at ambient atmospheric pressure.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEEL ppm</th>
<th>mg/m³</th>
<th>ACGIH TLV ppm</th>
<th>mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>TWA</td>
<td>100</td>
<td>600</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>150</td>
<td>909</td>
<td></td>
</tr>
</tbody>
</table>

ENGINEERING CONTROLS: No special requirements.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical splash googles and full face-shield.
SKIN: Rubber or other chemical resistant gloves.
RESPIRATORY: A respirator is not needed under normal and intended conditions of product use.
PROTECTIVE CLOTHING: Chemical resistant outerwear (tyvek) if contact with spray or mist is anticipated.
WORK HYGIENIC PRACTICES: Wash with soap and water after handling. Do not eat, drink or smoke while using product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Citrus
COLOR: Orange
pH: 11.5 to 12.0
PERCENT VOLATILE: 85+
FLASH POINT AND METHOD: None
FLAMMABLE LIMITS: N/A
AUTOIGNITION TEMPERATURE: NA = Not Applicable
VAPOR PRESSURE: ≤ 20 mm Hg at (68°F)
VAPOR DENSITY: ≤ 1 Air = 1
BOILING POINT: ~ 100°C (212°F)
FREEZING POINT: ~ 0°C (32°F)
MELTING POINT: Not Available
SOLUBILITY IN WATER: Complete
EVAPORATION RATE: (Water =1) 1.0
DENSITY: 8.41 at (68°F)
SPECIFIC GRAVITY: 1.008 grams/ml.
VISCOSITY: Water thin.
(VOC): 4.750 % by weight

10. STABILITY AND REACTIVITY

REACTIVITY: Yes
HAZARDOUS POLYMERIZATION: No
CONDITIONS TO AVOID: Not Established
POSSIBILITY OF HAZARDOUS REACTIONS: None Expected.
HAZARDOUS DECOMPOSITION PRODUCTS: None known.
INCOMPATIBLE MATERIALS: Strong acids, oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ORAL LD_{50}</th>
<th>DERMAL LD_{50}</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(rat)</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>Nonylphenol Ethoxylate</td>
<td>16000 mg/kg</td>
<td>4490 mg/kg</td>
</tr>
<tr>
<td></td>
<td>(rat)</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>Sodium Salt benzene, 1, 1-oxybis tetrapropylene derivatives, Sulfonated, Sodium Salts</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>(rat)</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>Sodium Silicate</td>
<td>1500 to 3200 mg/kg</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>(rat)</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>9510 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

EYES: Not Established
DERMAL LD_{50}: Not Established
SKIN ABSORPTION: None Expected.
ORAL LD_{50}: Not Established
INHALATION LC_{50}: Not Established
EYE EFFECTS: Moderate to severe eye irritant.
SKIN EFFECTS: Moderate skin irritant.

CARCINOGENICITY

IARC: No listed substance

IRRITATION: Irritant

SENSITIZATION: No known significant effects or critical hazards.

NEUROTOXICITY: No known significant effects or critical hazards.

REPRODUCTIVE EFFECTS: No known significant effects or critical hazards.

MUTAGENICITY: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Established

ECOTOXICOLOGICAL INFORMATION: Not Established

AQUATIC TOXICITY (ACUTE): Not Established

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Small amounts (less than 5 gallons) may be disposed of in sanitary sewer. Consult local authorities for additional disposal information.

FOR LARGE SPILLS: Consult with local and state authorities for large volume disposal.

PRODUCT DISPOSAL: See above.

EMPTY CONTAINER: Rinse container with clear water. Offer container for recycling, or dispose of in trash.

RCRA/EPA WASTE INFORMATION: NA = Not Applicable

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Cleaning Compound, not regulated.

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Cleaning Compound, not regulated.

AIR (ICAO/IATA)

SHIPPING NAME: Cleaning Compound, not regulated.

VESSEL (IMO/IMDG)

SHIPPING NAME: Cleaning Compound, not regulated.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Health - Acute

FIRE: No PRESSURE GENERATING: No REACTIVITY: No ACUTE: Yes CHRONIC: No

313 REPORTABLE INGREDIENTS: None

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: NA = Not Applicable

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: NA = Not Applicable

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All ingredients are listed on the TSCA Chemical Inventory.
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonylphenol Ethoxylate</td>
<td>Massachusetts Right to Know Substance</td>
</tr>
<tr>
<td></td>
<td>New Jersey Right To Know Substance</td>
</tr>
<tr>
<td></td>
<td>Pennsylvania Right to Know Substance</td>
</tr>
<tr>
<td>Sodium Silicate</td>
<td>Pennsylvania Right to Know Substance</td>
</tr>
<tr>
<td></td>
<td>New Jersey Right To Know Substance</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>Massachusetts Right to Know Substance</td>
</tr>
<tr>
<td></td>
<td>New Jersey Right To Know Substance</td>
</tr>
<tr>
<td></td>
<td>Pennsylvania Right to Know Substance</td>
</tr>
</tbody>
</table>

California Proposition 65: None

Carcinogen: No listed substance

16. OTHER INFORMATION

Prepared By: Regulatory Affairs Department
Date Prepared: 04/16/2015

**HMIS RATING**

- **Health**: 2
- **Flammability**: 0
- **Physical Hazard**: 0
- **Personal Protection**: B

**NFPA CODES**

- **Health**: 2
- **Flammability**: 0
- **Physical Hazard**: 0

Manufacturer Disclaimer: This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of the product either alone or in combination with other products. It is the responsibility of the employer and/or user to provide a safe workplace, using health and safety information contained herein as a guide. This company will accept no liability for damages or losses incurred from the improper handling and use of this product.