SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: Recon Extreme Duty Cleaner No. 3024  
General Use: Cleaner/degreaser for heavy industrial soils.  
Product Description: High Performance Degreaser  
Chemical Family: Solvent/alkali/detergent blend

Information on the Supplier of the Safety Data Sheet

Manufactured For: Fiberlock Technologies, Inc.  
150 Dascomb Road  
Andover, MA 01810  
P: 800-342-3755  
F: 978-475-6205

Emergency Telephone Numbers:  
CHEM TEL: (U.S.): 1-800-255-3924  
(Outside the U.S.): 813-248-0585  
Poison Control Center (Medical): 800-222-1222

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: DANGER

GHS Label Statements

Hazard Statements:  
Causes serious eye damage.  
Causes skin irritation.  
Harmful if swallowed.  
May be corrosive to metals.

GHS Classifications

Health:  
Skin Irritation, Category 2A  
Eye Corrosion, Category 1  
Acute Toxicity (Oral), Category 4

Physical:  
Corrosive to Metals, Category 1
PRECAUTIONARY STATEMENTS

Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Keep only in original packaging.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Storage: Store locked up.

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

EMERGENCY OVERVIEW

Physical appearance: Purple liquid

Immediate concerns: Causes irreversible eye damage and skin burns.

POTENTIAL HEALTH EFFECTS

Eyes: Corrosive, contact causes severe eye burns.

Skin: Contact causes severe skin irritation and possible burns.

Ingestion: Harmful if swallowed.

REPRODUCTIVE TOXICITY

Teratogenic effects: None known.

Carcinogenicity: Not established.

Mutagenicity: None known.

Routes of entry: Eye, skin, ingestion.

Warning caution labels: Corrosive

Physical hazards: None expected.

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Silicate</td>
<td>6834-92-0</td>
<td>0-5</td>
</tr>
<tr>
<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
<td>0-5</td>
</tr>
<tr>
<td>Nonylphenol Ethoxylate</td>
<td>9016-45-9</td>
<td>5-10</td>
</tr>
<tr>
<td>Polyethylene glycol (octylphenyl) ether Phosphate</td>
<td>52623-95-7</td>
<td>0-5</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>141-43-5</td>
<td>0-5</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>34590-94-8</td>
<td>10-15</td>
</tr>
<tr>
<td>Ethylene glycol butyl ether</td>
<td>111-76-2</td>
<td>0-5</td>
</tr>
<tr>
<td>Dye</td>
<td>N/A</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>70-80</td>
</tr>
</tbody>
</table>

SECTION 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
Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.

Inhalation
Remove victim to fresh air and monitor. Seek medical advice if irritation persists.

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

Signs and Symptoms of Overexposure
   Eyes: Severe burning sensation, damage marked by burns.
   Skin: Burning sensation, redness.
   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: Corrosive to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.
   Notes to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE-FIGHTING MEASURES

Flammable class: None
Extinguishing media: Use an extinguishing agent suitable for the surrounding fire.
Explosion hazards: Fire exposed containers may burst due to increased pressure from heat.
Fire-fighting procedures: Keep fire exposed containers cool with water stream or mist.
Fire-fighting equipment: Not Established
Hazardous decomposition products: Not Established

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small spill: Avoid runoff into storm sewers and ditches which lead to waterways.
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.
   Air spill: NA = Not Applicable
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 noncombustible material and transfer to containers.
Special protective equipment: Eye protection, rubber gloves, rubber boots to protect feet.

SECTION 7: HANDLING AND STORAGE

General Procedures
Close container after use.
Handling
Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking or using toilet facilities.

Storage
Store in closed container in an area inaccessible to children.

Storage Temperature
Store at ambient temperatures.

Storage Pressure
Store at ambient atmospheric pressure.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)</th>
<th>EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OSHA PEL</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>ppm</td>
</tr>
<tr>
<td>Potassium Hydroxide</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
</tr>
<tr>
<td>Ethylene glycol butyl ether</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
</tr>
</tbody>
</table>

Engineering Controls: No special requirements.

Personal Protective Equipment

Eyes and face: Chemical splash goggles 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor:</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Color:</td>
<td>Purple</td>
</tr>
<tr>
<td>pH</td>
<td>13.0-14.0</td>
</tr>
<tr>
<td>Freezing point</td>
<td>32°F; 0°C</td>
</tr>
</tbody>
</table>
Boiling point/boiling range  
~212°F; 100°C

Flash Point  
None

Evaporation rate (Water=1)  
1.0

Flammable Limits  
N/A

Vapor pressure  
~ 20 mm Hg at (68°F)

Vapor density  
~ 1 Air = 1

Specific Gravity  
~1.035 grams/ml.

Water Solubility  
Complete

Autoignition temperature  
NA = Not Applicable

Thermal decomposition  
Not Available

Percent volatile  
>80

Density  
8.64 at 20°C (68°F)

Viscosity  
Slightly viscous.

VOC  
18.850% by weight

SECTION 10: STABILITY AND REACTIVITY

Reactivity  
Stable

Hazardous Polymerization  
Will not occur.

Conditions to Avoid  
None known

Hazardous Decomposition Products  
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Incompatible Materials  
Strong acids, oxidizers.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ORAL LD₅₀</th>
<th>DERMAL LD₅₀</th>
<th>INHALATION LC₅₀</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Silicate</td>
<td>1500 to 3200 mg/kg (rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide</td>
<td>273 mg/kg (rat)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Nonylphenol Ethoxylate</td>
<td>16000 mg/kg (rat)</td>
<td>4490 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>1089 mg/kg (rat)</td>
<td>2504 mg/kg (rabbit)</td>
<td>~ 1.48 mg/l</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>&gt; 5000 mg/kg (rat)</td>
<td>9510 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>Ethylene glycol butyl ether</td>
<td>1300 mg/kg (rat)</td>
<td>&gt; 2000 mg/kg (rabbit)</td>
<td>&gt; 3.1 mg/l</td>
</tr>
</tbody>
</table>
Eyes: Not established
Dermal LD<sub>50</sub>: Not established
Skin absorption: None expected
Oral LD<sub>50</sub>: Not established
Inhalation LC<sub>50</sub>: Not established

Eye effects: Corrosive to eyes. Permanent damage may occur.
Skin effects: Corrosive to skin.

Carcinogenicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NTP Status</th>
<th>IARC Status</th>
<th>OSHA Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol butyl ether</td>
<td>No listed substance</td>
<td>Group 3 – Not classifiable as to its carcinogenicity to Humans</td>
<td>No listed substance</td>
</tr>
</tbody>
</table>

IARC: The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of d-Limonene in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans).

Irritation: Irritant
Corrosivity: Corrosive
Genetic effects: No known significant effects or critical hazards.
Reproductive effects: No known significant effects or critical hazards.
Target organs: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.

SECTION 12: ECOLOGICAL INFORMATION

Environmental data: Not Established.
Ecotoxicological information: This material may be toxic to aquatic life.
Aquatic toxicity (acute): Not Established.
Chemical fate information: This product is biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal method: Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. If discarded, this material and its containers should be treated as hazardous waste based on the characteristics of corrosivity as defined under federal RCRA regulations (40 CFR 261). Consult local authorities for disposal into public sewer.
For large spills: Consult with local and state authorities for large volume disposal.
Product disposal: Any method in accordance with local, state, and federal laws. Best method is to recycle or reuse for intended purpose.
Empty container: Rinse container with clear water. Offer container for recycling, or dispose of in trash.

SECTION 14: TRANSPORT INFORMATION

DOT
Proper Shipping Name        Compound, Cleaning Liquid
Technical Name              Potassium Hydroxide Solution
Primary Hazard Class/Division 8
UN/NA Number                1760
Packing Group III
Placards Corrosive
Label Certain package sizes determine the proper labeling of containers. Consult manufacturer for specific information regarding proper labeling.
Other Shipping Information Certain shipping modes and packaging sizes may have exceptions from the transport regulations. The classifications/information provided above may not reflect applicable exceptions. Contact the manufacturer for more specific information on the proper shipping of this material.

U.S. Customs Harmonization # 3402.90.10.00

IATA/ICAO
Shipping Name Contact manufacturer for more information.

IMDG/IMO
Shipping Name Contact manufacturer for more information.

SECTION 15: REGULATORY INFORMATION

United States
DOT Label Symbol and Hazard Classification

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: No listed substance

EPCRA Section 313 Supplier Notification
Chemical Name Wt% CAS
Ethylene glycol butyl ether 0-5 111-76-2

302/304 Emergency Planning
Emergency Plan: No listed substance

CERCLA (Comprehensive Response, Compensation, and Liability Act)
CERCLA Regulatory: Not established

Chemical Name Wt% CERCLA RQ
Potassium Hydroxide 0-5 1,000

TSCA (Toxic Substance Control Act)
TSCA Regulatory: All ingredients are listed on the TSCA Chemical Inventory.

California Proposition 65: No listed substance
Carcinogen: The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of 2-butoxyethanol in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans).
States with Special Requirements

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<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>Potassium Hydroxide</td>
<td>Massachusetts Right to Know Substance</td>
</tr>
<tr>
<td></td>
<td>Pennsylvania Right to Know Substance</td>
</tr>
<tr>
<td></td>
<td>New Jersey Right To Know Substance</td>
</tr>
<tr>
<td></td>
<td>Rhode Island Right to Know Substance</td>
</tr>
<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>Monoethanolamine</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>New York Right to Know Substance</td>
</tr>
<tr>
<td></td>
<td>Pennsylvania 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>
<tr>
<td>Ethylene glycol butyl ether</td>
<td>Massachusetts Right to Know Substance</td>
</tr>
<tr>
<td></td>
<td>New Jersey Right To Know Substance</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

NFPA  Health Hazards 3  Flammability 0  Instability 0  Physical & Chemical Hazards -
HMIS  Health Hazards 3  Flammability 0  Physical Hazard 0  Personal Protection D

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD (5323) or log on to: www.epa.gov/lead

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