1. Product and Company Identification

Product Code: 408.3
Product Name: Klean Strip Wood Bleach Part A
Manufacturer Information
  Company Name: W. M. Barr
  2105 Channel Avenue
  Memphis, TN 38113
  Phone Number: (901)775-0100
  Emergency Contact: 3E 24 Hour Emergency Contact (800)451-8346
  Information: W.M. Barr Customer Service (800)398-3892
  Web site address: www.wmbarr.com
Preparer Name: W.M. Barr EHS Dept (901)775-0100
Intended Use: To be used in conjunction with Wood Bleach Part B to lighten stripped or unfinished wood.

Synonyms
G408, GWB19

2. Hazards Identification

Emergency Overview
Danger. Harmful or fatal if swallowed. Corrosive. Causes severe damage to eyes. Causes chemical burns to the skin.

Use only with adequate ventilation.

OSHA Regulatory Status:
This material is classified as hazardous under OSHA regulations.

Health Hazards (Acute and Chronic)
INHALATION EXPOSURE EFFECTS: May cause irritation of respiratory tract, possibly severe. Can cause severe irritation to the nose and throat and inflammation of the lungs.

SKIN CONTACT EXPOSURE EFFECTS: Causes severe burns. May cause irritation and dermatitis.

EYE CONTACT EXPOSURE EFFECTS: Causes eye damage and severe burns. Has the potential to cause blindness.

INGESTION EXPOSURE EFFECTS: Harmful or fatal is swallowed. May cause nausea; vomiting; irritation and burns of mouth and throat.

ROUTE OF ENTRY: Inhalation, skin, and ingestion

TARGET ORGANS: Respiratory tract, lungs, stomach, eyes

Signs and Symptoms Of Exposure
See Potential Health Effects.
Medical Conditions Generally Aggravated By Exposure
Respiratory System (asthma and other breathing disorders)

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide (Caustic soda; Lye solution)</td>
<td>1310-73-2</td>
<td>3.0 -7.0 %</td>
</tr>
</tbody>
</table>

4. First Aid Measures

Emergency and First Aid Procedures
INHALATION: If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.

SKIN CONTACT: Wash with soap and large quantities of water and seek medical attention if irritation from contact persists.

EYE CONTACT: Flush with large quantities of water for at least 15 minutes and seek immediate medical attention.

INGESTION: Do not induce vomiting. Drink large quantities of water. Never give anything my mouth to an unconscious person. Call your poison control center, hospital emergency room, or physician immediately for instructions.

Note to Physician
The absence of visible signs or symptoms of burns does not reliably exclude the presence of actual tissue damage. Probable mucosal damage may contraindicate the use of gastric lavage.

5. Fire Fighting Measures

Flammability Classification: Non-Flammable
Flash Pt: No data.
Explosive Limits: LEL: No data. UEL: No data.

Special Fire Fighting Procedures
Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Stay away from heads of containers that have been exposed to intense heat or flame.

Unusual Fire and Explosion Hazards
No data available.

Hazardous Combustion Products
None known.

Suitable Extinguishing Media
Non-combustible liquid - use extinguishing media for underlying cause of fire.

Unsuitable Extinguishing Media
None known.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled
Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering.

Small Spills: take up liquid with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large Spills: dike far ahead of spill for later disposal.
Wear appropriate personal protective equipment for the conditions of the spill.

7. Handling and Storage

Precautions To Be Taken in Handling
Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Avoid breathing vapors or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

Precautions To Be Taken in Storing
Never return this solution to the original container. Close container after each use. Avoid storage at extreme high or low temperatures. Protect from freezing.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)
For OSHA controlled workplace and other regular users - Use only with adequate ventilation under engineered air controlled systems designed to prevent exceeding appropriate TLV. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirators. A dust mask does not provide protection against vapors.

Eye Protection
Chemical splash goggles or a face shield is recommended to safeguard against potential eye contact, irritation, or injury.

Protective Gloves
Wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as nitrile rubber, neoprene, natural rubber, butyl rubber, and polyvinyl chloride may provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused.

Other Protective Clothing
Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

Ventilation
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Use only with adequate ventilation to prevent buildup of vapors. Do not use in areas where vapors can accumulate and concentrate, such as basements, bathrooms or small enclosed areas. Whenever possible, use outdoors in an open air area. If using indoors open all windows and doors and maintain a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea or eye-watering -- STOP -- ventilation is inadequate. Leave area immediately and move to fresh air.
Work/Hygienic/Maintenance Practices

Wash hands thoroughly after use and before eating, drinking, or smoking.

Do not eat, drink, or smoke in the work area.

Discard any clothing or other protective equipment that cannot be decontaminated.

Facilities storing or handling this material should be equipped with an emergency eyewash and safety shower.

9. Physical and Chemical Properties

Physical Properties:

- **Gas** [ ]
- **Liquid** [ X ]
- **Solid** [ ]

Melting Point: No data.

Boiling Point: 212.00 F - 293.00 F

Autoignition Pt: No data.

Flash Pt: No data.

Explosive Limits:

- LEL: No data.
- UEL: No data.

Specific Gravity (Water = 1): 1.075

Density:

- 8.963 LB/GA at 75.0 F
- No data.

Bulk density:

- 0 MM HG at 20.0 C
- No data.

Vapor Pressure (vs. Air or mm Hg):

- > 1.0

Vapor Density (vs. Air = 1):

- < 1

Evaporation Rate (vs Butyl Acetate=1):

- Complete

Solubility in Water:

- 91.9 % by weight.

Percent Volatile:

- <= 0.0000 G/L

VOC / Volume:

- No data.

Heat Value:

- No data.

Particle Size:

- No data.

Corrosion Rate:

- No data.

pH:

- > 13

Appearance and Odor:

Free and clear to slightly hazy.

10. Stability and Reactivity

**Stability:**

- Unstable [ ]
- Stable [ X ]

Conditions To Avoid - Instability:

No data available.

Incompatibility - Materials To Avoid:

Incompatible with acids, halogenated compounds, aluminum, brass, bronze, copper, lead, tin, and zinc.

Hazardous Decomposition Or Byproducts:

Contact with certain metals may produce hydrogen gas.

Possibility of Hazardous Reactions:

- Will occur [ ]
- Will not occur [ X ]

Conditions To Avoid - Hazardous Reactions:

No data available.

11. Toxicological Information

This product has not been tested as a whole. Information below will be for individual ingredients.

Sodium Hydroxide:

**ACUTE TOXICITY:** LD50 Mouse ip 40 mg/kg
SKIN CORROSION / IRRITATION: A severe skin irritant. It causes second and third degree burns on short contact. The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur.
SERIOUS EYE DAMAGE / IRRITATION: Very injurious and corrosive to the eyes. Can cause possible corneal damage and blindness.
RESPIRATORY OR SKIN SENSITIZATION: Not a respiratory or skin sensitizer.
ASPIRATION HAZARD: No data.
MUTAGENIC DATA: No data.
IMMUNOTOXICITY: No data.
NEUROTOXICITY: No data.
DEVELOPMENTAL/REPRODUCTIVE: No data.
Other Adverse Effects: Inhalation will cause severe irritation, possible burns with pulmonary edema, which may lead to pneumonitis.

Chronic Toxicological Effects
This product has not been tested as a whole. Information below will be for individual ingredients.

Sodium Hydroxide:
In general, chronic effects are due to long-term irritation. This material may cause dermatitis on the skin, or recurrent corneal ulceration and visual disturbances. In rare cases reports have noted long-term inhalation cause bronchial inflammatory reaction or obstructive airway dysfunction.

Carcinogenicity/Other Information
No data available.

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide (Caustic soda; Lye solution)</td>
<td>1310-73-2</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

12. Ecological Information
This product has not been tested as a whole. Information below will be for individual ingredients.

Sodium Hydroxide:
Toxicity: This material has exhibited moderate toxicity to aquatic organisms.
LC50 Daphnia 100 ppm
LC50 Brook Trout, 24 hrs, 25 ppm
LC50 Shrimp 48 hrs, 33-100 ppm
Persistence and Degradability: This material is inorganic and not subject to biodegradation. This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material is believed to exist in the disassociated stated in the environment.
Bioaccumulative Potential: No believed to bioconcentrate.
Mobility in Soil: No data.
Other Adverse Effects: This material has exhibited slight toxicity to terrestrial organisms.

13. Disposal Considerations
Waste Disposal Method
Dispose in accordance with applicable local, state and federal regulations.
LAND TRANSPORT (US DOT)

DOT Proper Shipping Name: Sodium hydroxide solution
DOT Hazard Class: 8
DOT Hazard Label: CORROSIVE
UN/NA Number: UN1824
Packing Group: II

Additional Transport Information

For D.O.T. information, contact W.M. Barr Technical Services at 1-800-398-3892.

15. Regulatory Information

US EPA SARA Title III

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Sec.302 (EHS)</th>
<th>Sec.304 RQ</th>
<th>Sec.313 (TRI)</th>
<th>Sec.110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide (Caustic soda; Lye solution)</td>
<td>1310-73-2</td>
<td>No</td>
<td>Yes 1000 LB</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

US EPA CAA, CWA, TSCA

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>EPA CAA</th>
<th>EPA CWA NPDES</th>
<th>EPA TSCA</th>
<th>CA PROP 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide (Caustic soda; Lye solution)</td>
<td>1310-73-2</td>
<td>HAP, ODC ()</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

EPA Hazard Categories:

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

[X] Yes  [ ] No  Acute (immediate) Health Hazard
[ ] Yes  [X] No  Chronic (delayed) Health Hazard
[ ] Yes  [X] No  Fire Hazard
[ ] Yes  [X] No  Sudden Release of Pressure Hazard
[ ] Yes  [X] No  Reactive Hazard

16. Other Information

No data available.
1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Code:</th>
<th>409.2</th>
</tr>
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<tbody>
<tr>
<td>Product Name:</td>
<td>Klean Strip Wood Bleach Part B</td>
</tr>
</tbody>
</table>

Manufacturer Information

<table>
<thead>
<tr>
<th>Company Name:</th>
<th>W. M. Barr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Address:</td>
<td>2105 Channel Avenue</td>
</tr>
<tr>
<td>City:</td>
<td>Memphis, TN</td>
</tr>
<tr>
<td>Zip:</td>
<td>38113</td>
</tr>
<tr>
<td>Phone Number:</td>
<td>(901)775-0100</td>
</tr>
<tr>
<td>Emergency Contact:</td>
<td>3E 24 Hour Emergency Contact (800)451-8346</td>
</tr>
<tr>
<td>Information:</td>
<td>W.M. Barr Customer Service (800)398-3892</td>
</tr>
<tr>
<td>Web site address:</td>
<td><a href="http://www.wmbarr.com">www.wmbarr.com</a></td>
</tr>
<tr>
<td>Preparer Name:</td>
<td>W.M. Barr EHS Dept (901)775-0100</td>
</tr>
<tr>
<td>Intended Use:</td>
<td>To be used in conjunction with Wood Bleach Part A to lighten stripped or unfinished wood.</td>
</tr>
</tbody>
</table>

Synonyms

G409, GWB19

2. Hazards Identification

Emergency Overview

**Danger! Strong Oxidizer.** Evaporation or drying of this material on cloth or other combustible surfaces may cause fire. Contact with combustible liquids or vapors may cause fire or explosion, especially if exposed to heat.

Harmful if swallowed. Causes severe damage to eyes. Causes chemical burns to skin.

Use only with adequate ventilation.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

Health Hazards (Acute and Chronic)

**INHALATION EXPOSURE EFFECTS:** May cause irritation of respiratory tract, nose and throat. In case of repeated or prolonged exposure, risk of sore throat, nose bleeds, and chronic bronchitis.

**SKIN CONTACT EXPOSURE EFFECTS:** May cause burns, redness, blisters, and temporary whitening or bleaching of the skin.

**EYE CONTACT EXPOSURE EFFECTS:** May cause severe eye irritation, watering, redness and swelling of the eyelids. There is risk of serious or permanent eye lesions.

**INGESTION EXPOSURE EFFECTS:** Harmful or fatal if swallowed. May cause paleness and cyanosis of the face. May cause severe irritation, risk of burns and perforation of the gastrointestinal tract accompanied by shock. May cause excessive fluid in the mouth and nose, with risk of suffocation. There is risk of throat and lung edema and suffocation. May cause cough, nausea and vomiting (bloody). There is risk of chemical pneumonitis from product inhalation.

ROUTE OF ENTRY: Inhalation, skin, and ingestion
TARGET ORGANS: Respiratory system, eyes, lungs, stomach

**Signs and Symptoms Of Exposure**
See Potential Health Effects.

**Medical Conditions Generally Aggravated By Exposure**
None Known.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide (Hydrogen dioxide; Hydroperoxide)</td>
<td>7722-84-1</td>
<td>25.0 -30.0 %</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**Emergency and First Aid Procedures**

**Skin:**
Remove contaminated clothing. Immediately wash skin thoroughly with large amounts of water and mild soap, if available. Seek medical attention if irritation develops or persists.

**Eyes:**
Immediately begin to flush eyes with water, remove any contact lens if present. Continue to flush the eyes for at least 15 minutes. Seek medical attention.

**Inhalation:**
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**Ingestion:**
If swallowed, do NOT induce vomiting. If conscious, drink large quantities of water. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

**Flammability Classification:** Non-Flammable, Oxidizer

**Flash Pt:** NE

**Explosive Limits:**
LEL: No data. UEL: No data.

**Special Fire Fighting Procedures**
Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Stay away from heads of container that have been exposed to intense heat or flame.

**Unusual Fire and Explosion Hazards**
Strong Oxidizer! Evaporation or drying of this material on cloth or other combustible surfaces may cause a fire. Contact with combustible liquids or vapors may cause fire or explosion, especially if exposed to heat.

Non-combustible, but may contribute to the combustion of other substances and causes violent and sometimes explosive reactions.

Contact with flammables may cause fire or explosion.

Oxygen released on exothermic decomposition may support combustion in case of surrounding fire.

Pressure burst may occur due to decomposition in confined spaces/containers.
Hazardous Combustion Products
Oxygen

Suitable Extinguishing Media
Non-combustible liquid - use extinguishing media for underlying cause of fire.

Unsuitable Extinguishing Media
None known.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled
Isolate the immediate area. Prevent unauthorized entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, or confined areas.

A vapor suppressing foam may be used to reduce vapors. In case of contact with combustible materials, avoid product drying out by dilution with water.

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

For large spills, dike ahead of the spill with sand or earth if possible. Dilute with large quantities of water. Do not add chemical products. Do not return product to the original container.

7. Handling and Storage

Precautions To Be Taken in Handling
Only use in a well ventilated area. Keep away from heat sources and incompatible materials. Prevent all contact with organics. Never return unused product to the storage container. Ensure an adequate supply of clean water is available in the event of skin or eye contact or to dilute spills. Containers and equipment used to handle hydrogen peroxide should be used exclusively for hydrogen peroxide. Close container after each use.

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations.

Do not reuse this container.

Precautions To Be Taken in Storing
Store in a ventilated, cool area away from heat sources and out of the sun. Keep away from incompatible products. Keep away from combustible substances. Keep in original container, tightly closed.

8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TWA</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Hydrogen peroxide {Hydrogen dioxide; Hydroperoxide}</td>
<td>7722-84-1</td>
<td>PEL: 1 ppm</td>
<td>TLV: 1 ppm</td>
<td>CEIL: 2 mg/m3</td>
</tr>
</tbody>
</table>

Respiratory Equipment (Specify Type)
For use in areas with inadequate ventilation or fresh air, wear a properly maintained and properly fitted NIOSH approved full-face supplied air respirator for excessive concentrations.

For OSHA controlled work places and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding the appropriate TLV.
A dust mask does not provide protection against vapors.

**Eye Protection**

Chemical splash goggles or face shields are recommended to safeguard against potential eye contact, irritation, or injury.

**Protective Gloves**

Wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as rubber and PVC provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be rinsed off, allowed to dry, discarded and not reused.

**Other Protective Clothing**

Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.

**Ventilation**

Use only with adequate ventilation.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Use only with adequate ventilation to prevent buildup of vapors. Do not use in areas where vapors can accumulate and concentrate, such as basements, bathrooms or small enclosed areas. Whenever possible, use outdoors in an open air area. If using indoors open all windows and doors and maintain a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea or eye-watering -- STOP -- ventilation is inadequate. Leave area immediately and move to fresh air.

**Work/Hygienic/Maintenance Practices**

Wash hands thoroughly after use and before eating, drinking, or smoking.

Do not eat, drink, or smoke in the work area.

Discard any clothing or other protective equipment that cannot be decontaminated.

Facilities storing or handling this material should be equipped with an emergency eyewash and safety shower.

### 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical States:</th>
<th>[ ] Gas</th>
<th>[X] Liquid</th>
<th>[ ] Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point:</td>
<td>No data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>212.00 F - 220.00 F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition Pt:</td>
<td>No data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Pt:</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive Limits:</td>
<td>LEL: No data.</td>
<td>UEL: No data.</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity (Water = 1):</td>
<td>1.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density:</td>
<td>9.189 LB/GA at 75.0 F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulk density:</td>
<td>No data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure (vs. Air or mm Hg):</td>
<td>0 MM HG at 20.0 C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Density (vs. Air = 1):</td>
<td>&gt; 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Evaporation Rate (vs Butyl Acetate=1): > 1
Solubility in Water: Complete
Percent Volatile: 100.0 % by weight.
VOC / Volume: <= 0.0000 G/L
Heat Value: No data.
Particle Size: No data.
Corrosion Rate: No data.
pH: 2.5 - 3.4

Appearance and Odor
Free and clear colorless liquid with a slightly pungent odor.

10. Stability and Reactivity
Stability: Unstable [ ] Stable [ X ]
Conditions To Avoid - Instability
Do not mix with other chemicals, unless directed to by the container label.

Incompatibility - Materials To Avoid

Hazardous Decomposition Or Byproducts
Thermal decomposition may produce oxygen, steam, and heat.

Possibility of Hazardous Reactions: Will occur [ ] Will not occur [ X ]
Conditions To Avoid - Hazardous Reactions
No data available.

11. Toxicological Information
This product has not been tested as a whole. Information below will be for individual ingredients.

Hydrogen Peroxide:
ACUTE TOXICITY:
LC50, inhalation, 4 hrs, rat, 2000 mg/m3
LD50, ingestion, rat, 1232 mg/kg for 35% hydrogen peroxide
LD50, skin, rabbit, >2000 mg/kg for 35% hydrogen peroxide
SKIN CORROSION / IRRITATION:
Rabbit, irritant, skin, for <50% hydrogen peroxide
Rabbit, corrosive, skin, 1 hr, for 50% hydrogen peroxide
SERIOUS EYE DAMAGE / IRRITATION:
Rabbit, serious damage for 70% hydrogen peroxide
RESPIRATORY OR SKIN SENSITIZATION: Not a respiratory or skin sensitizer.
ASPIRATION HAZARD: no data
MUTAGENIC DATA: no data
IMMUNOTOXICITY: no data
NEUROTOXICITY: no data
DEVELOPMENTAL/REPRODUCTIVE: no data
CARCINOGEN STATUS: The carcinogenic effect found in animals is not demonstrated in humans.

Chronic Toxicological Effects
This product has not been tested as a whole.
Carcinogenicity/Other Information

ACGIH A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide {Hydrogen dioxide; Hydroperoxide}</td>
<td>7722-84-1</td>
<td>n.a.</td>
<td>n.a.</td>
<td>A3</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

12. Ecological Information

This product has not been tested as a whole.

Hydrogen Peroxide:

TOXICITY:
- Toxic for aquatic organisms.
- Fish, pimephales promelas, LC50, 96 hrs, 16.4 mg/L
- Algae, various species, EC50, 72 to 96 hrs, 3.7 to 160 mg/L in fresh water

PERSISTANCE AND DEGRADABILITY: Considerable abiotic and biotic degradability. No toxicity of degradation products (H2O and O2).

BIOACUMULATIVE POTENTIAL: No bioaccumulation.

MOBILITY IN SOIL: No data.

13. Disposal Considerations

Waste Disposal Method
Dispose in accordance with applicable local, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name: Hydrogen peroxide, aqueous solutions
DOT Hazard Class: 5.1
DOT Hazard Label: OXIDIZER, CORROSIVE
UN/NA Number: UN2014
Packing Group: II

Additional Transport Information
For D.O.T. information, contact W.M. Barr Technical Services at 1-800-398-3892.

15. Regulatory Information

US EPA SARA Title III

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Sec.302 (EHS)</th>
<th>Sec.304 RQ</th>
<th>Sec.313 (TRI)</th>
<th>Sec.110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide {Hydrogen dioxide; Hydroperoxide}</td>
<td>7722-84-1</td>
<td>Yes 1000 LB</td>
<td>Yes NA</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

US EPA CAA, CWA, TSCA

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>EPA CAA</th>
<th>EPA CWA NPDES</th>
<th>EPA TSCA</th>
<th>CA PROP 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide {Hydrogen dioxide; Hydroperoxide}</td>
<td>7722-84-1</td>
<td>HAP, ODC ()</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

EPA Hazard Categories:

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

[X] Yes  [ ] No  Acute (immediate) Health Hazard
[ ] Yes  [X] No  Chronic (delayed) Health Hazard
[X] Yes  [ ] No  Fire Hazard
[ ] Yes  [X] No  Sudden Release of Pressure Hazard
[X] Yes  [ ] No  Reactive Hazard

16. Other Information

No data available.