

MATERIAL SAFETY DATA SHEET

Klean Strip Wood Bleach Part A

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HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZ.	1
PPE	



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Supersedes Revision: 05/13/1993

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 if 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.

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Medical Conditions Generally Aggravated By Exposure

Respiratory System (asthma and other breathing disorders)

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Sodium hydroxide {Caustic soda; Lye solution}	1310-73-2	3.0 -7.0 %

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 by 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

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TWA	Other Limits
1. Sodium hydroxide {Caustic soda; Lye solution}	1310-73-2	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.

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.

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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 States: [] Gas [X] Liquid [] 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
Bulk density: No data.
Vapor Pressure (vs. Air or mm Hg): 0 MM HG at 20.0 C
Vapor Density (vs. Air = 1): > 1.0
Evaporation Rate (vs Butyl Acetate=1): < 1
Solubility in Water: Complete
Percent Volatile: 91.9 % by weight.
VOC / Volume: <= 0.0000 G/L
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

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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.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Sodium hydroxide {Caustic soda; Lye solution}	1310-73-2	n.a.	n.a.	n.a.	n.a.

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.

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14. Transport Information

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

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Sodium hydroxide {Caustic soda; Lye solution}	1310-73-2	No	Yes 1000 LB	No	No

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
1. Sodium hydroxide {Caustic soda; Lye solution}	1310-73-2	HAP, ODC ()	No	Inventory	No

EPA Hazard Categories:

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

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

16. Other Information

No data available.

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HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZ.	1
PPE	X



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1. Product and Company Identification

Product Code: 409.2
Product Name: Klean Strip Wood Bleach Part B
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 A to lighten stripped or unfinished wood.

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

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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

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Hydrogen peroxide (Hydrogen dioxide; Hydroperoxide)	7722-84-1	25.0 -30.0 %

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.

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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

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TWA	Other Limits
1. Hydrogen peroxide (Hydrogen dioxide; Hydroperoxide)	7722-84-1	PEL: 1 ppm	TLV: 1 ppm CEIL: 2 mg/m ³	No data.

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.

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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

Physical States:	[] Gas	[X] Liquid	[] Solid
Melting Point:	No data.		
Boiling Point:	212.00 F - 220.00 F		
Autoignition Pt:	No data.		
Flash Pt:	NE		
Explosive Limits:	LEL: No data.	UEL: No data.	
Specific Gravity (Water = 1):	1.1		
Density:	9.189 LB/GA at 75.0 F		
Bulk density:	No data.		
Vapor Pressure (vs. Air or mm Hg):	0 MM HG at 20.0 C		
Vapor Density (vs. Air = 1):	> 1		

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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

Heat and sources of heat, contamination, acids, bases, metals, salts of metals, reducing agents, organic materials, flammable substances.

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.

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Carcinogenicity/Other Information

ACGIH A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Hydrogen peroxide {Hydrogen dioxide; Hydroperoxide}	7722-84-1	n.a.	n.a.	A3	n.a.

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

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Hydrogen peroxide {Hydrogen dioxide; Hydroperoxide}	7722-84-1	Yes 1000 LB	Yes NA	No	No

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
1. Hydrogen peroxide {Hydrogen dioxide; Hydroperoxide}	7722-84-1	HAP, ODC ()	No	Inventory	No

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

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Yes No Fire Hazard

Yes No Sudden Release of Pressure Hazard

Yes No Reactive Hazard

16. Other Information

No data available.