

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

### Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** C53  
**Product Name:** Coolant Booster
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- 1.3 Details of the Supplier of the Safety Data Sheet:**
- |                          |                                                                       |                                       |
|--------------------------|-----------------------------------------------------------------------|---------------------------------------|
| <b>Company Name:</b>     | CYCLO INDUSTRIES, INC.<br>902 SOUTH US HIGHWAY 1<br>JUPITER, FL 33477 | <b>Phone Number:</b><br>(800)843-7813 |
| <b>Web site address:</b> | www.cyclo.com                                                         |                                       |
| <b>Email address:</b>    | ehs@cyclo.com                                                         |                                       |
| <b>Information:</b>      | First Aid Emergency (Outside U.S.)                                    | (312)906-6194                         |
- 1.4 Emergency telephone number:**
- |                           |                         |               |
|---------------------------|-------------------------|---------------|
| <b>Emergency Contact:</b> | First Aid Emergency     | (800)752-7869 |
|                           | CHEMTREC (703) 527-3887 | (800)424-9300 |

### Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:**  
**Acute Toxicity: Oral, Category 4**  
**Skin Corrosion/Irritation, Category 3**
- 2.1.2 Classification according to Directive 1999/45/EC:**
- 2.2 Label Elements:**
- 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:**



**GHS Signal Word:** Warning

**GHS Hazard Phrases:**

H302: Harmful if swallowed.

H316: Causes mild skin irritation.

**GHS Precaution Phrases:**

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

**GHS Response Phrases:**

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

**GHS Storage and Disposal Phrases:**

P501: Dispose of contents/container in accordance with local/regional/national/international regulation.



**2.2.2 Labeling according to Directive 1999/45/EC:**

**2.3 Adverse Human Health ACUTE EXPOSURE**

**Effects and Symptoms:**

A subcomponent of C-53 Coolant Boost is Ethylene Glycol. Ethylene Glycol contains 1,2-Ethenediol and 2,2'-oxybis-ethanol. 1,2-Ethenediol Can cause pulmonary edema if aspirated into lungs. May produce symptoms of central nervous system and depression including headache, dizziness, nausea, euphoria, loss of equilibrium, drowsiness, visual disturbances, fatigue, unconsciousness and respiratory arrest.

SKIN: Irritating to the skin. Prolonged or repeated contact may cause dermatitis. May be absorbed through the skin and cause toxic effects similar to those resulting from inhalation exposure.

INHALATION: Can cause pulmonary edema if aspirated into lungs. May produce symptoms of central nervous system depression including headache, dizziness, nausea, euphoria, loss of equilibrium, drowsiness, visual disturbances, fatigue, unconsciousness and respiratory arrest.

This material is hazardous by OSHA Hazard Communication definition. Harmful or fatal if swallowed. Harmful if inhaled or absorbed through the skin. May cause irritation to skin, eyes and respiratory tract. May cause allergic skin reaction. Affects central nervous system.

EYE: May be irritating to the eyes.

INGESTION: Central nervous system symptoms similar to those by inhalation, followed by rapid breathing, increased heart rate, possible toxicity to the kidneys, decreased urine volume and severe metabolic acidosis.

**CHRONIC HEALTH EFFECTS**

1,2-Ethenediol Prolonged or repeated inhalation or ingestion may result in kidney and liver changes. 2,2'-oxybis-ethanol Prolonged or repeated inhalation or ingestion may result in kidney and liver changes. May produce symptoms of central nervous system depression including headache, dizziness, nausea, euphoria, loss of equilibrium, drowsiness, visual disturbances, fatigue, unconsciousness and respiratory arrest. Repeated exposure may cause liver and kidney damage.

**LD 50 / LC 50**

This substance appears to be of low toxicity, except for possible mild irritant effects in humans. A high dose may produce central nervous system depression, but there are no reports of adverse health effects from occupation exposure.

Sub-component of Ethylene Glycol--1,2-Ethenediol LC50 (Inhl) Rat 10876 MG/KG LD50 (Oral) Rat 4700 MG/KG

ACUTE INHALATION EFFECTS: Minimal evidence for birth defects were detected in the offspring of mice exposed aerosol concentrations up to 2500 mg/m<sup>3</sup>, 6 hrs/day during



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gestation.

ACUTE ORAL EFFECTS - Component Ethylene glycol produces birth defects when orally administered to pregnant mice and rats at doses of 500 and 1000 mg/kg/day, respectively during gestation. No-effect levels were 150 and 500 mg/kg/day, respectively, in the mouse and rat.

SKIN EFFECTS: This substance is a mild irritant.

EYE EFFECTS: This product is expected to be a mild eye irritant.

Sub-component of Ethylene Glycol-2,2'-oxybis-ethanol LD50 (Oral) Rat 12.6 G/KG

SKIN EFFECTS - This substance is a mild skin irritant.

EYE EFFECTS - This product is expected to be a mild eye irritant.

REPRODUCTIVE / DEVELOPMENT EFFECTS - In vitro, no evidence of mutagenicity. No in vivo evidence of carcinogenicity or adverse reproductive effects in animal studies.

Pre-existing liver or kidney disorders.

**Medical Conditions**  
**Generally Aggravated**  
**By Exposure:**

### Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
7732-18-5	Water	90.0 -97.0 %	231-791-2 NA	No phrases apply. No data available.
107-21-1	Ethylene glycol	3.0 %	203-473-3 603-027-00-1	Xn; R22 Acute Tox.(O) 4: H302
1310-73-2	Sodium hydroxide	0.25 %	215-185-5 011-002-00-6	C;Xi; R35 Skin Corr. 1A: H314
7631-99-4	Sodium nitrate	0.1 %	231-554-3 NA	Xn;O; R22-36/37/38-8 Ox. Sol. 3: H272 Eye Damage 2B: H320 Mutagen 2: H341 STOT (SE) 1: H370 STOT (RE) 1: H372
2492-26-4	2(3H)-Benzothiazolethione, Sodium salt	~ 0.1 %	219-660-8 NA	R43 Skin Corr. 1C: H314 Skin Sens. 1: H317 Eye Damage 1: H318
68439-51-0	Alcohols, C12-14, ethoxylated propoxylated	< 1.0 %	614-484-1 NA	No phrases apply. Eye Damage 2: H319 Aquatic (A) 1: H400 Aquatic (C) 1: H410
25322-68-3	Polyethylene glycol	< 0.001 %	500-038-2 NA	No phrases apply. No data available.
NA	( Trade Secret )	< 0.001 %	NA NA	No phrases apply. Acute Tox.(O) 4: H302 Eye Damage 1: H318 EUH031



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126950-60-5	Alcohols, C12-14-secondary	< 0.001 %	603-174-1	No data available.
			NA	No data available.
9041-33-2	Oxirane, methyl-, polymer with oxirane, mono-2-propenyl ether	< 0.001 %	618-549-5	No data available.
			NA	No data available.
NA	Dye	0.04 %	NA	No data available.
			NA	No data available.

### Section 4. First Aid Measures

- 4.1 Description of First Aid Measures:** If swallowed, do not induce vomiting. If vomiting does occur, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to an unconscious person. If inhaled, immediately remove person to fresh air. If person has stopped breathing, give artificial respiration. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call physician immediately if adverse reaction occurs.
- 4.2 Important Symptoms and Effects, Both Acute and Delayed:** A subcomponent of C-53 Coolant Boost is Ethylene Glycol. Ethylene Glycol contains 1,2-Ethanediol and can cause pulmonary edema if aspirated into lungs. May produce symptoms of central nervous system and depression including headache, dizziness, nausea, euphoria, loss of equilibrium, drowsiness, visual disturbances, fatigue, unconsciousness and respiratory arrest.

### Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** No data available.
- 5.2 Flammable Properties and Hazards:** A subcomponent of C-53, Ethylene glycol mist in air is a moderate fire and explosion hazard.
- Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>).
- Flash Pt:** > 300.00 F (148.9 C) Method Used: Estimate
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** NA
- 5.3 Fire Fighting Instructions:** Wear a NIOSH approved positive pressure self-contained breathing apparatus and firefighter turnout gear. Individuals should perform only those fire-fighting procedures for which they have been trained. Fire fighters should wear self-contained breathing apparatus in the positive pressure mode with a full facepiece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products. Cool tanks and containers exposed to fire with water. Cool containers with flooding quantities of water until well after fire is out.

### Section 6. Accidental Release Measures

- 6.1 Protective Precautions, Protective Equipment and Emergency Procedures:** No data available.
- 6.2 Environmental Precautions:** No data available.
- 6.3 Methods and Material For Containment and Cleaning Up:** Contain spill with dike to prevent entry into sewers or waterways. For large spills, dike and pump into properly labeled containers for reclamation or disposal. For small spills, soak up with absorbent material and place in properly labeled containers for disposal. All



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recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.

### Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Keep out of the reach of children.  
No data available.

### Section 8. Exposure Controls/Personal Protection

#### 8.1 Exposure Parameters:

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
7732-18-5	Water	No data.	No data.	No data.
107-21-1	Ethylene glycol	TWA: 10 mg/m3 (Powder)	TWA: 52 mg/m3 (20 ppm) STEL: 104 mg/m3 (40 ppm)	TWA: 52 mg/m3 STEL: 104 mg/m3
1310-73-2	Sodium hydroxide	STEL: 2 mg/m3 ( )	TWA: 2 mg/m3	No data.
7631-99-4	Sodium nitrate	No data.	No data.	No data.
2492-26-4	2(3H)-Benzothiazolethione, Sodium salt	No data.	No data.	No data.
68439-51-0	Alcohols, C12-14, ethoxylated propoxylated	No data.	No data.	No data.
25322-68-3	Polyethylene glycol	No data.	No data.	No data.
NA	( Trade Secret )	No data.	No data.	No data.
126950-60-5	Alcohols, C12-14-secondary	No data.	No data.	No data.
9041-33-2	Oxirane, methyl-, polymer with oxirane, mono-2-propenyl ether	No data.	No data.	No data.
NA	Dye	No data.	No data.	No data.
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7732-18-5	Water	No data.	No data.	No data.
107-21-1	Ethylene glycol	No data.	CEIL: 100 mg/m3 (H)	No data.
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.
7631-99-4	Sodium nitrate	No data.	No data.	No data.
2492-26-4	2(3H)-Benzothiazolethione, Sodium salt	No data.	No data.	No data.
68439-51-0	Alcohols, C12-14, ethoxylated propoxylated	No data.	No data.	No data.
25322-68-3	Polyethylene glycol	No data.	No data.	No data.
NA	( Trade Secret )	No data.	No data.	No data.
126950-60-5	Alcohols, C12-14-secondary	No data.	No data.	No data.
9041-33-2	Oxirane, methyl-, polymer with oxirane, mono-2-propenyl ether	No data.	No data.	No data.
NA	Dye	No data.	No data.	No data.



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### 8.2 Exposure Controls:

**8.2.1 Engineering Controls (Ventilation etc.):** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposures limits. Emergency shower and eyewash facility should be in close proximity (ANSI Z358.1)

### 8.2.2 Personal protection equipment:

**Eye Protection:** Wear safety glasses as minimum protection. Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice. Use protective eye and face devices that comply with ANSI Z87.1-1987.

**Protective Gloves:** Wear chemical resistant gloves such as rubber, neoprene or vinyl. Appropriate protective clothing should be worn to prevent skin contact.

**Other Protective Clothing:** No data available.

**Respiratory Equipment (Specify Type):** A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. Where unknown concentrations are encountered or during an emergency, use NIOSH approved supplied air respirators.  
No data available.

## Section 9. Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid  
**Appearance and Odor:** Dark green liquid with slight sweet odor.  
**pH:** 12.2  
**Melting Point:** No data.  
**Boiling Point:** No data.  
**Flash Pt:** > 300.00 F (148.9 C) Method Used: Estimate  
**Evaporation Rate:** No data.  
**Flammability (solid, gas):** No data available.  
**Explosive Limits:** LEL: No data. UEL: No data.  
**Vapor Pressure (vs. Air or mm Hg):** No data.  
**Vapor Density (vs. Air = 1):** No data.  
**Specific Gravity (Water = 1):** 1.011  
**Density:** 8.43 LB/GA  
**Solubility in Water:** No data.  
**Autoignition Pt:** NA



**9.2 Other Information**

**Percent Volatile:** 0.0 % by weight.

**Section 10. Stability and Reactivity**

- 10.1 Reactivity:** No data available.
- 10.2 Stability:** Unstable [ ] Stable [ X ]
- 10.3 Conditions To Avoid -** No data available.
- Hazardous Reactions:**
- Possibility of** Will occur [ ] Will not occur [ X ]
- Hazardous Reactions:**
- 10.4 Conditions To Avoid -** No data available.
- Instability:**
- 10.5 Incompatibility -** Oxidizing agents. Acids. Bases.
- Materials To Avoid:**
- 10.6 Hazardous** Carbon monoxide and Carbon dioxide.
- Decomposition or**
- Byproducts:**

**Section 11. Toxicological Information**

- 11.1 Information on Toxicological Effects:** This substance appears to be of low toxicity, except for possible mild irritant effects in humans. A high dose may produce central nervous system depression, but there are no reports of adverse health effects from occupation exposure.
- Sub-component of Ethylene Glycol--  
1,2-Ethanediol LC50 (Inhl) Rat 10876 MG/KG LD50 (Oral) Rat 4700 MG/KG
- ACUTE INHALATION EFFECTS - Minimal evidence for birth defects were detected in the offspring of mice exposed aerosol concentrations up to 2500 mg/m<sup>3</sup>, 6 hrs/day during gestation.
- ACUTE ORAL EFFECTS - Component Ethylene glycol produces birth defects when orally administered to pregnant mice and rats at doses of 500 and 1000 mg/kg/day, respectively during gestation. No-effect levels were 150 and 500 mg/kg/day, respectively, in the mouse and rat.
- SKIN EFFECTS - This substance is a mild irritant.
- EYE EFFECTS - This product is expected to be a mild eye irritant.
- Sub-component of Ethylene Glycol--  
2,2'-oxybis-ethanol LD50 (Oral) Rat 12.6 G/KG
- SKIN EFFECTS - This substance is a mild skin irritant.
- EYE EFFECTS - This product is expected to be a mild eye irritant.
- REPRODUCTIVE / DEVELOPMENT EFFECTS - In vitro, no evidence of mutagenicity. No in vivo evidence of carcinogenicity or adverse reproductive effects in animal studies.  
CAS# 7732-18-5:  
Other Studies:, TDLo, Oral, Species: Rabbit, 3502. GM/KG, 2 W.  
Results:



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Behavioral: Convulsions or effect on seizure threshold.

Behavioral: Muscle weakness.

Related to Chronic Data - death.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, TDLo, Oral, Infant, 333.0 GM/KG.

Results:

Behavioral: Convulsions or effect on seizure threshold.

Gastrointestinal:Hypermotility, diarrhea.

Nutritional and Gross Metabolic:Changes in:Body temperature increase.

- Archives of Disease in Childhood., British Medical Journal, Box 560B, Kennebunkport, ME 04046, Vol/p/yr: 54,551, 1979

Acute toxicity, TDLo, Oral, Human, 42.86 GM/KG.

Results:

Behavioral: Tremor.

Behavioral: Muscle contraction or spasticity.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Rectal, Species: Woman, 180.0 GM/KG, 28 H.

Results:

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Mydriasis (pupillary dilation).

Behavioral: Convulsions or effect on seizure threshold.

Gastrointestinal:Nausea or vomiting.

- Journal of the American Medical Association, American Medical Association, 535 N. Dearborn St., Chicago, IL 60610, Vol/p/yr: 104,1569, 1935

Acute toxicity, LD50, Oral, Rat, > 90.00 ML/KG.

Results:

Kidney, Ureter, Bladder: Changes in liver weight.

- Food Research., For publisher information, see JFDSAZ, Champaign, IL, Vol/p/yr: 21,348, 1956

Acute toxicity, LD50, Intraperitoneal, Mouse, 190.0 GM/KG.

Results:

Kidney, Ureter, Bladder: Changes in liver weight.

Kidney, Ureter, Bladder: Changes in bladder weight.

- National Technical Information Service, Vol/p/yr: AD628-313,

Acute toxicity, LD50, Intravenous, Mouse, 25.00 GM/KG.

Results:

Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

Related to Chronic Data - death.

- Microvascular Research., Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 8,320, 1974

Acute toxicity, LDLO, Oral, Dog, 629.0 GM/KG.





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**Results:**

Kidney, Ureter, Bladder: Changes in liver weight.

Kidney, Ureter, Bladder: Changes in bladder weight.

- Journal of Pharmacology and Experimental Therapeutics, Williams &amp; Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Oral, Species: Cat, 320.0 GM/KG.

**Results:**

Behavioral: Convulsions or effect on seizure threshold.

- Journal of Pharmacology and Experimental Therapeutics, Williams &amp; Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Oral, Species: Rabbit, 368.0 GM/KG.

**Results:**

Behavioral: Convulsions or effect on seizure threshold.

- Journal of Pharmacology and Experimental Therapeutics, Williams &amp; Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Intravenous, Species: Rabbit, 13.00 GM/KG.

**Results:**

Blood:Other hemolysis with or without anemia.

- Journal of Pharmacology and Experimental Therapeutics, Williams &amp; Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Rectal, Species: Rabbit, 450.0 GM/KG.

**Results:**

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Mydriasis (pupillary dilation).

Behavioral: Muscle contraction or spasticity.

Gastrointestinal: Changes in structure or function of salivary glands.

- Journal of the American Medical Association, American Medical Association, 535 N. Dearborn St., Chicago, IL 60610, Vol/p/yr: 104,1569, 1935

Acute toxicity, LDLO, Oral, Species: Guinea pig, 429.0 GM/KG.

**Results:**

Behavioral: Convulsions or effect on seizure threshold.

- Journal of Pharmacology and Experimental Therapeutics, Williams &amp; Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7732-18-5	Water	n.a.	n.a.	n.a.	n.a.
107-21-1	Ethylene glycol	n.a.	n.a.	A4	n.a.
1310-73-2	Sodium hydroxide	n.a.	n.a.	n.a.	n.a.
7631-99-4	Sodium nitrate	n.a.	n.a.	n.a.	n.a.
2492-26-4	2(3H)-Benzothiazolethione, Sodium salt	n.a.	n.a.	n.a.	n.a.
68439-51-0	Alcohols, C12-14, ethoxylated propoxylated	n.a.	n.a.	n.a.	n.a.
25322-68-3	Polyethylene glycol	n.a.	n.a.	n.a.	n.a.



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NA	( Trade Secret )	n.a.	n.a.	n.a.	n.a.
126950-60-5	Alcohols, C12-14-secondary	n.a.	n.a.	n.a.	n.a.
9041-33-2	Oxirane, methyl-, polymer with oxirane, mono-2-propenyl ether	n.a.	n.a.	n.a.	n.a.
NA	Dye	n.a.	n.a.	n.a.	n.a.

### Section 12. Ecological Information

#### 12.1 Toxicity:

Laboratory toxicity tests have indicated that Ethylene Glycol is not significantly toxic to fish and aquatic invertebrates, although amphibians such as toads and frogs may be more sensitive. Wildlife species are more susceptible to ethylene glycol since mammals and birds do not readily metabolize this material. The odor and flavor of Ethylene Glycol may attract some wildlife and cause them to consume spilled material.

Due care should be taken to avoid accidental releases of this material to aquatic and terrestrial environments. Ethylene glycol bio-degrades rapidly in both soil and water, and will not persist in the environment. Ethylene glycol is highly soluble in water.

Because of Ethylene Glycol's high solubility and rapid biodegradability, it is unlikely that it will bioaccumulate in aquatic or terrestrial environments.

CAS# 2492-26-4:

LC50, Bluegill (*Lepomis macrochirus*), 0.004 ML/L, 96 H, Mortality, Water temperature: 22.00 C (71.6 F) C, pH: 6.90, Hardness: 11.60 MG/L.

Results:

Affected fish stopped schooling behavior.

- Initial Submission: Pollution Control Laboratory Fish Bioassay Results for 50% Sodium MBT (2-Mercaptobenzothiazole), with Cover Letter Dated 10/12/79, Uniroyal Chemicals, 1994

Effective concentration to {0} % of test organisms, Bluegill (*Lepomis macrochirus*), 15.00 MG/L, 96 H, Mortality, Water temperature: 21.00 C (69.8 F) - 22.00 C (71.6 F) C, pH: 7.30, Hardness: 154.00 mg/L.

Results:

No observed effect.

- Bioassay Report LC 50, Acute, Static 96 Hours in Freshwater with Cover Letter, R.T.Vanderbilt Co.Inc., 1985

LC50, Bluegill (*Lepomis macrochirus*), 4.500 MG/L, 48 H, Mortality, Water temperature: 22.00 C (71.6 F) C, pH: 7.20.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

LC50, Bluegill (*Lepomis macrochirus*), 5.700 MG/L, 24 H, Mortality, Water temperature: 22.00 C (71.6 F) C, pH: 7.20.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

LC50, Bluegill (*Lepomis macrochirus*), 3.800 MG/L, 96 H, Mortality, Water temperature: 22.00 C (71.6 F) C, pH: 7.20.



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**Results:**

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

LC50, Bluegill (*Lepomis macrochirus*), 13.30 MG/L, 96 H, Mortality, Water temperature: 21.00 C (69.8 F) - 22.00 C (71.6 F) C, pH: 7.30, Hardness: 154.00 mg/L.

**Results:**

No observed effect.

- Bioassay Report LC 50, Acute, Static 96 Hours in Freshwater with Cover Letter, R.T.Vanderbilt Co.Inc., 1985

Not reported., Rainbow Trout (*Oncorhynchus mykiss*), 10000. UG/L, 24 H, Mortality, Water temperature: 13.00 C (55.4 F) C, pH: 7.60, Hardness: 17.00 MG/L.

**Results:**

No loss of equilibrium observed.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

LC50, Rainbow Trout (*Oncorhynchus mykiss*), 0.730 PPM, 96 H, Mortality.

**Results:**

No observed effect.

- Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)), Office of Pesticide Programs, 2000

LC50, Rainbow Trout (*Oncorhynchus mykiss*), 0.730 PPM, 96 H, Mortality.

**Results:**

No observed effect.

- Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)), Office of Pesticide Programs, 2000

Effective concentration to {0} % of test organisms, Rainbow Trout (*Oncorhynchus mykiss*), 3.160 MG/L, 96 H, Mortality, Water temperature: 11.00 C (51.8 F) C, pH: 8.00, Hardness: 205.00 mg/L.

**Results:**

No observed effect.

- Bioassay Report LC 50, Acute, Static 96 Hours in Freshwater with Cover Letter, R.T.Vanderbilt Co.Inc., 1985

LC50, Rainbow Trout (*Oncorhynchus mykiss*), 2.880 MG/L, 96 H, Mortality, Water temperature: 11.00 C (51.8 F) C, pH: 8.00, Hardness: 205.00 mg/L.

**Results:**

No observed effect.

- Bioassay Report LC 50, Acute, Static 96 Hours in Freshwater with Cover Letter, R.T.Vanderbilt Co.Inc., 1985

LC50, Rainbow Trout (*Oncorhynchus mykiss*), 2.000 MG/L, 24 H, Mortality, Water temperature: 12.00 C (53.6 F) C, pH: 7.30.

**Results:**

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985



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LC50, Rainbow Trout (*Oncorhynchus mykiss*), 1.800 MG/L, 96 H, Mortality, Water temperature: 12.00 C (53.6 F) C, pH: 7.30.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

LC50, Rainbow Trout (*Oncorhynchus mykiss*), 1.800 MG/L, 48 H, Mortality, Water temperature: 12.00 C (53.6 F) C, pH: 7.30.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

Effective concentration to {0} % of test organisms, Rainbow Trout (*Oncorhynchus mykiss*), 1.400 MG/L, 96 H, Mortality, Water temperature: 12.00 C (53.6 F) C, pH: 7.30.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

Effective concentration to 50% of test organisms., Water Flea (*Daphnia magna*), 2.900 PPM, 48 H, Intoxication,.

Results:

No observed effect.

- Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)), Office of Pesticide Programs, 2000

Effective concentration to {0} % of test organisms, Water Flea (*Daphnia magna*), 10.00 MG/L, 24 H, Mortality, Water temperature: 19.00 C (66.2 F) C, pH: 8.10, Hardness: 220.00 MG/L.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

Effective concentration to {0} % of test organisms, Water Flea (*Daphnia magna*), 18.00 MG/L, 24 H, Mortality, Water temperature: 19.00 C (66.2 F) C, pH: 8.10, Hardness: 220.00 MG/L.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

LC50, Water Flea (*Daphnia magna*), 19.00 MG/L, 48 H, Mortality, Water temperature: 19.00 C (66.2 F) C, pH: 8.10, Hardness: 220.00 MG/L.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

Lethal concentration to 84% of test organisms., Water Flea (*Daphnia magna*), 90.00 MG/L, 24 H, Mortality, Water temperature: 19.00 C (66.2 F) C, pH: 8.10, Hardness: 220.00 MG/L.

Results:



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No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

LC50, Water Flea (*Daphnia magna*), 44.00 MG/L, 24 H, Mortality, Water temperature: 19.00 C (66.2 F) C, pH: 8.10, Hardness: 220.00 MG/L.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

Lethal concentration to 16% of test organisms., Water Flea (*Daphnia magna*), 13.00 MG/L, 48 H, Mortality, Water temperature: 19.00 C (66.2 F) C, pH: 8.10, Hardness: 220.00 MG/L.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

Lethal concentration to 16% of test organisms., Water Flea (*Daphnia magna*), 22.00 MG/L, 24 H, Mortality, Water temperature: 19.00 C (66.2 F) C, pH: 8.10, Hardness: 220.00 MG/L.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

Lethal concentration to 84% of test organisms., Water Flea (*Daphnia magna*), 28.00 MG/L, 48 H, Mortality, Water temperature: 19.00 C (66.2 F) C, pH: 8.10, Hardness: 220.00 MG/L.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

Not reported., Chinook Salmon (*Oncorhynchus tshawytscha*), 10000. UG/L, 24 H, Behavior, Water temperature: 11.00 C (51.8 F) C, pH: 7.20, Hardness: 17.00 MG/L.

Results:

Aerated. Tested in polyethylene bags. Conc/only conc tested. Effect: loss of equilibrium occurred in {0-2 H}.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Chinook Salmon (*Oncorhynchus tshawytscha*), 10000. UG/L, 24 H, Mortality, Water temperature: 11.00 C (51.8 F) C, pH: 7.20, Hardness: 17.00 MG/L.

Results:

Affected fish stopped schooling behavior.

Affected fish lost equilibrium prior to death.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Chinook Salmon (*Oncorhynchus tshawytscha*), 10000. UG/L, 24 H, Behavior, pH: 7.60, Water Hardness: 17.00 MG/L.

Results:

Aerated. Tested in polyethylene bags. Conc/only conc tested. Effect: loss of equilibrium



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occurred in {0-0.5 H}.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Chinook Salmon (*Oncorhynchus tshawytscha*), 10000. UG/L, 24 H, Mortality, pH: 7.60, Water Hardness: 17.00 MG/L.

Results:

No observed effect.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Coho Salmon, Silver Salmon (*Oncorhynchus kisutch*), 10000. UG/L, 24 H, Behavior, Water temperature: 11.00 C (51.8 F) C, pH: 7.20, Hardness: 17.00 MG/L.

Results:

Aerated. Tested in polyethylene bags. Conc/only conc tested. Effect: loss of equilibrium occurred in {0-2 H}.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Coho Salmon, Silver Salmon (*Oncorhynchus kisutch*), 10000. UG/L, 24 H, Mortality, Water temperature: 11.00 C (51.8 F) C, pH: 7.20, Hardness: 17.00 MG/L.

Results:

No observed effect.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Coho Salmon, Silver Salmon (*Oncorhynchus kisutch*), 10000. UG/L, 24 H, Behavior, pH: 7.60, Water Hardness: 17.00 MG/L.

Results:

Aerated. Tested in polyethylene bags. Conc/only conc tested. Effect: loss of equilibrium occurred in {0-0.5 H}.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Coho Salmon, Silver Salmon (*Oncorhynchus kisutch*), 10000. UG/L, 24 H, Mortality, pH: 7.60, Water Hardness: 17.00 MG/L.

Results:

No observed effect.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Coho Salmon, Silver Salmon (*Oncorhynchus kisutch*), 10000. UG/L, 24 H, Behavior, Water temperature: 13.00 C (55.4 F) C, pH: 7.60, Hardness: 17.00 MG/L.

Results:

Aerated. Tested in polyethylene bags. Conc/only conc tested. Effect: loss of equilibrium occurred in {0-0.5 H}.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Coho Salmon, Silver Salmon (*Oncorhynchus kisutch*), 10000. UG/L, 24 H,



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Mortality, Water temperature: 13.00 C (55.4 F) C, pH: 7.60, Hardness: 17.00 MG/L.

Results:

No observed effect.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Northern Squawfish (*Ptychocheilus oregonensis*), 10000. UG/L, 24 H, Behavior, Water temperature: 11.00 C (51.8 F) C, pH: 7.20, Hardness: 17.00 MG/L.

Results:

Aerated. Tested in polyethylene bags. Conc/only conc tested. Effect: loss of equilibrium occurred in {0-2 H}.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Northern Squawfish (*Ptychocheilus oregonensis*), 10000. UG/L, 24 H, Mortality, Water temperature: 11.00 C (51.8 F) C, pH: 7.20, Hardness: 17.00 MG/L.

Results:

Affected fish stopped schooling behavior.

Affected fish lost equilibrium prior to death.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Northern Squawfish (*Ptychocheilus oregonensis*), 10000. UG/L, 24 H, Behavior, pH: 7.60, Water Hardness: 17.00 MG/L.

Results:

Aerated. Tested in polyethylene bags. Conc/only conc tested. Effect: loss of equilibrium occurred in {0-0.5 H}.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Not reported., Northern Squawfish (*Ptychocheilus oregonensis*), 10000. UG/L, 24 H, Mortality, Water temperature: 13.00 C (55.4 F) C, pH: 7.60, Hardness: 17.00 MG/L.

Results:

No loss of equilibrium observed.

- Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America, MacPhee, C., and R. Ruelle, 1969

Effective concentration to 50% of test organisms., Green Algae (*Pseudokirchneriella subcapitata*), 1.000 MG/L, 48 H, Population, Water temperature: 24.00 C (75.2 F) C, pH: 7.80.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

Effective concentration to 50% of test organisms., Green Algae (*Pseudokirchneriella subcapitata*), 2.000 MG/L, 24 H, Population, Water temperature: 24.00 C (75.2 F) C, pH: 7.80.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985



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Effective concentration to 50% of test organisms., Green Algae (Pseudokirchneriella subcapitata), 0.400 MG/L, 96 H, Population, Water temperature: 24.00 C (75.2 F) C, pH: 7.80.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

Effective concentration to 50% of test organisms., Green Algae (Pseudokirchneriella subcapitata), 0.400 MG/L, 72 H, Population, Water temperature: 24.00 C (75.2 F) C, pH: 7.80.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

Effective concentration to 50% of test organisms., Green Algae (Pseudokirchneriella subcapitata), 0.300 MG/L, 96 H, Population, Water temperature: 24.00 C (75.2 F) C, pH: 7.80.

Results:

No observed effect.

- Toxicologic Investigation of: Ureka White, Monsanto Co., 1985

**12.2 Persistence and Degradability:** No data available.

**12.3 Bioaccumulative Potential:** No data available.

**12.4 Mobility in Soil:** No data available.

**12.5 Results of PBT and vPvB assessment:** No data available.

**12.6 Other adverse effects:** No data available.

### Section 13. Disposal Considerations

**13.1 Waste Disposal Method:** Dispose of contents/container in accordance with local/regional/national/international regulation.

### Section 14. Transport Information

**14.1 LAND TRANSPORT (European ADR/RID):**

**ADR/RID Shipping Name:** Not-Restricted

**UN Number:**

**Hazard Class:**

**14.2 MARINE TRANSPORT (IMDG/IMO):**

**IMDG/IMO Shipping Name:** Not-Restricted

**UN Number:**

**Hazard Class:**

**Packing Group:**

**Marine Pollutant:** No





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### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not-Restricted

## Section 15. Regulatory Information

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7732-18-5	Water	No	No	No
107-21-1	Ethylene glycol	No	Yes 5000 LB	Yes
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No
7631-99-4	Sodium nitrate	No	No	Yes-Cat. N511
2492-26-4	2(3H)-Benzothiazolethione, Sodium salt	No	No	No
68439-51-0	Alcohols, C12-14, ethoxylated propoxylated	No	No	No
25322-68-3	Polyethylene glycol	No	No	No
NA	( Trade Secret )	No	No	No
126950-60-5	Alcohols, C12-14-secondary	No	No	No
9041-33-2	Oxirane, methyl-, polymer with oxirane, mono-2-propenyl ether	No	No	No
NA	Dye	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7732-18-5	Water	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
107-21-1	Ethylene glycol	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: No; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - 0878; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
1310-73-2	Sodium hydroxide	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 1706; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
7631-99-4	Sodium nitrate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No
2492-26-4	2(3H)-Benzothiazolethione, Sodium salt	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
68439-51-0	Alcohols, C12-14, ethoxylated propoxylated	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
25322-68-3	Polyethylene glycol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA



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Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

NA ( Trade Secret )

126950-60-5 Alcohols, C12-14-secondary

9041-33-2 Oxirane, methyl-, polymer with oxirane, mono-2-propenyl ether

NA Dye

**CAS # Hazardous Components (Chemical Name)**

7732-18-5 Water

107-21-1 Ethylene glycol

1310-73-2 Sodium hydroxide

7631-99-4 Sodium nitrate

2492-26-4 2(3H)-Benzothiazolethione, Sodium salt

68439-51-0 Alcohols, C12-14, ethoxylated propoxylated

25322-68-3 Polyethylene glycol

NA ( Trade Secret )

126950-60-5 Alcohols, C12-14-secondary

9041-33-2 Oxirane, methyl-, polymer with oxirane, mono-2-propenyl ether

NA Dye

**International Regulatory Lists**

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: Yes

Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: No

**European Community Hazard Symbol codes:****European Community Risk and Safety Phrases:**

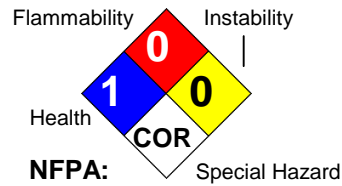
No data available.



**Section 16. Other Information**

**Revision Date:** 02/10/2015

**Hazard Rating System:**



**Additional Information About** No data available.

**This Product:**

**Company Policy or**

**Disclaimer:**

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