SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Identifier

Product Name: Concentrated Nitric Acid, 98%
Synonyms: Hydrogen Nitrate, Aqua Fortis, White Fuming Nitric Acid
Intended Use of the Product Not available

Name, Address, and Telephone of the Responsible Party

Company
El Dorado Chemical Company
4500 North West Ave.
P.O. Box 231
El Dorado, AR 71731
T (870) 863-1400 - F (870)-863-1126

Emergency Telephone Number

Emergency number: (870) 863-1400, (800) 424-9300 (CHEMTREC, 24 hours)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)
Ox. Liq. 3 H272
Met. Corr. 1 H290
Skin Corr. 1A H314
Eye Dam. 1 H318

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US):

Signal Word (GHS-US): Danger

Hazard Statements (GHS-US):
H272 - May intensify fire; oxidizer
H290 - May be corrosive to metals
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage

Precautionary Statements (GHS-US):
P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking.
P220 - Keep/Store away from extremely high or low temperatures, ignition sources, combustible materials, incompatible materials.
P221 - Take any precaution to avoid mixing with incompatible materials, ignition sources, combustible materials.
P234 - Keep only in original container.
P260 - Do not breathe vapors, mist, spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
Concentrated Nitric Acid, 98%
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P321 - Specific treatment (see section 4).
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use appropriate media for extinction.
P390 - Absorb spillage to prevent material damage.
P405 - Store locked up.
P406 - Store in corrosive resistant container with a resistant inner liner.
P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations.

Other Hazards
Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. May cause or intensify fire; oxidizer. When heated to decomposition, emits toxic fumes. Contact with metals may evolve flammable hydrogen gas.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances
Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitric acid</td>
<td>(CAS No) 7697-37-2</td>
<td>97.5 - 100</td>
<td>Ox. Liq. 3, H272</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Met. Corr. 1, H290</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1A, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures
General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call for medical assistance.
Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Immediately call for medical assistance. Wash contaminated clothing before reuse.
Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call for medical assistance.
Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call for medical assistance.

Most Important Symptoms and Effects Both Acute and Delayed
General: Causes severe skin burns and eye damage. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Inhalation: Inhalation may cause immediate severe irritation progressing quickly to chemical burns.
Skin Contact: Causes severe irritation which will progress to chemical burns.
Eye Contact: Causes serious eye damage.
Ingestion: Contact may cause immediate severe irritation progressing quickly to chemical burns. Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May cause erosion of the teeth, or chronic bronchitis.

Indication of Any Immediate Medical Attention and Special Treatment Needed
If exposed or concerned, get medical advice and attention.
Concentrated Nitric Acid, 98%

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SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media: Water spray, fog, carbon dioxide, foam, dry chemical.
Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture
Fire Hazard: May intensify fire; oxidizer. Will burn if exposed to heat, and in addition, will accelerate the burning of other combustibles, resulting in more rapid spread of fire.
Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. In contact with metals, emits flammable/explosive gas. May cause fire or explosion; strong oxidizer.

Advice for Firefighters
Precautionary Measures Fire: Exercise caution when fighting any chemical fire.
Firefighting Instructions: Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information: Do not allow run-off from fire fighting to enter drains or water courses. Contact with metals may evolve flammable hydrogen gas. Use water spray to disperse vapors.
Reference to Other Sections
Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
General Measures: Do NOT breathe (vapors, mist, spray). Avoid all contact with skin, eyes, or clothing. Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).
For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Ventilate area.
Environmental Precautions
Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up
For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Cautiously neutralize spilled liquid with crushed limestone, soda ash or lime. CAUTION : Neutralization can produce vigorous reaction, boiling and fumes. Use extreme caution in clean-up procedure. As an immediate precautionary measure, isolate spill or leak area in all directions.
Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Cautiously neutralize spilled liquid with crushed limestone, soda ash or lime. CAUTION : Neutralization can produce vigorous reaction, boiling and fumes. Use extreme caution in clean-up procedure. Contact competent authorities after a spill.
Reference to Other Sections
See section 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling
Additional Hazards When Processed: May be corrosive to metals. When heated to decomposition, emits toxic fumes. Corrosive vapors are released. Contact with metals may evolve flammable hydrogen gas.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.
**Concentrated Nitric Acid, 98%**  
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### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from extremely high or low temperatures, direct sunlight, heat, ignition sources, combustible materials, incompatible materials.


**Specific End Use(s)** Not available

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

<table>
<thead>
<tr>
<th>Nitric acid (7697-37-2)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mexico OEL TWA (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Mexico OEL TWA (ppm)</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Mexico OEL STEL (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Mexico OEL STEL (ppm)</td>
<td>4 ppm</td>
</tr>
<tr>
<td>USA ACGIH ACGIH TWA (ppm)</td>
<td>2 ppm</td>
</tr>
<tr>
<td>USA ACGIH ACGIH STEL (ppm)</td>
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</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (mg/m³)</td>
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</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (ppm)</td>
<td>2 ppm</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (TWA) (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (TWA) (ppm)</td>
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</tr>
<tr>
<td>USA NIOSH NIOSH REL (STEL) (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (STEL) (ppm)</td>
<td>4 ppm</td>
</tr>
<tr>
<td>USA IDLH US IDLH (ppm)</td>
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<tr>
<td>Alberta OEL STEL (mg/m³)</td>
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<tr>
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<td>Alberta OEL TWA (ppm)</td>
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<td>British Columbia OEL STEL (ppm)</td>
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<td>Manitoba OEL STEL (ppm)</td>
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</tr>
<tr>
<td>Manitoba OEL TWA (ppm)</td>
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</tr>
<tr>
<td>New Brunswick OEL STEL (mg/m³)</td>
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</tr>
<tr>
<td>New Brunswick OEL STEL (ppm)</td>
<td>4 ppm</td>
</tr>
<tr>
<td>New Brunswick OEL TWA (mg/m³)</td>
<td>5.2 mg/m³</td>
</tr>
<tr>
<td>New Brunswick OEL TWA (ppm)</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador OEL STEL (ppm)</td>
<td>4 ppm</td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador OEL TWA (ppm)</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Nova Scotia OEL STEL (ppm)</td>
<td>4 ppm</td>
</tr>
<tr>
<td>Nova Scotia OEL TWA (ppm)</td>
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</tr>
<tr>
<td>Nunavut OEL STEL (mg/m³)</td>
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<tr>
<td>Nunavut OEL TWA (ppm)</td>
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<td>Northwest Territories OEL STEL (mg/m³)</td>
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<td>Northwest Territories OEL STEL (ppm)</td>
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</tr>
<tr>
<td>Northwest Territories OEL TWA (mg/m³)</td>
<td>5.2 mg/m³</td>
</tr>
<tr>
<td>Northwest Territories OEL TWA (ppm)</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Ontario OEL STEL (ppm)</td>
<td>4 ppm</td>
</tr>
</tbody>
</table>
# Concentrated Nitric Acid, 98%

**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th></th>
<th>Ontario</th>
<th>Prince Edward Island</th>
<th>Québec</th>
</tr>
</thead>
<tbody>
<tr>
<td>OEL TWA (ppm)</td>
<td>2 ppm</td>
<td>4 ppm</td>
<td>2 ppm</td>
</tr>
<tr>
<td>OEL STEL (ppm)</td>
<td>2 ppm</td>
<td></td>
<td>2 ppm</td>
</tr>
<tr>
<td>VECD (mg/m³)</td>
<td>4 ppm</td>
<td></td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>VEMP (mg/m³)</td>
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<td>5.2 mg/m³</td>
</tr>
<tr>
<td>VEMP (ppm)</td>
<td>2 ppm</td>
<td></td>
<td>4 ppm</td>
</tr>
</tbody>
</table>

**Exposure Controls**

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use explosion-proof equipment. Ensure all national/local regulations are observed. Alarm detectors should be used when toxic gases may be released. Gas detectors should be used when flammable gases/vapors may be released.

**Personal Protective Equipment:** Gloves. Respiratory protection of the dependent type. Protective goggles. Protective clothing.

- **Materials for Protective Clothing:** Chemically resistant materials and fabrics. Corrosion-proof clothing. Wear fire/flame resistant/retardant clothing.
- **Hand Protection:** Wear chemically resistant protective gloves. Acid-resistant protective gloves.
- **Eye Protection:** Chemical goggles or face shield.
- **Skin and Body Protection:** Wear suitable protective clothing.
- **Respiratory Protection:** Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.
- **Other Information:** When using, do not eat, drink or smoke.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless, light brown</td>
</tr>
<tr>
<td>Odor</td>
<td>Acrid</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Relative Evaporation Rate (butylacetate=1)</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>-41.1 °C (-42°F)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>83.9 °C (183°F)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<td>Relative Vapor Density at 20 °C</td>
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<tr>
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<tr>
<td>Solubility</td>
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</tr>
<tr>
<td>Viscosity</td>
<td>1 cp @20°C (68°F)</td>
</tr>
<tr>
<td>Volatility</td>
<td>100%</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY


Chemical Stability: May intensify fire; oxidizer.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.


SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified.

LD50 and LC50 Data: Not available.

Skin Corrosion/Irritation: Causes severe skin burns and eye damage. pH: < 1

Serious Eye Damage/Irritation: Causes serious eye damage. pH: < 1

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified
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Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Contact may cause immediate severe irritation progressing quickly to chemical burns. Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May cause erosion of the teeth, or chronic bronchitis.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Nitric acid (7697-37-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Inhalation Rat (mg/l)</td>
</tr>
<tr>
<td>LC50 Inhalation Rat (ppm)</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Not classified

Persistence and Degradability

Concentrated Nitric Acid
Persistence and Degradability Not established.

Bioaccumulative Potential

Concentrated Nitric Acid
Bioaccumulative Potential Not established.

Nitric acid (7697-37-2)
Log Pow -2.3 (at 25 °C)

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT
Proper Shipping Name: NITRIC ACID other than red fuming, with more than 70% nitric acid
Hazard Class: 8
Identification Number: UN2031
Label Codes: 8,5.1
Packing Group: I
ERG Number: 157

14.2 In Accordance with IMDG
Proper Shipping Name: NITRIC ACID
Hazard Class: 8
Identification Number: UN2031
Packing Group: I
Label Codes: 8,5.1
EmS-No. (Fire): F-A
EmS-No. (Spillage): S-Q

14.3 In Accordance with IATA
Proper Shipping Name: NITRIC ACID
Packing Group: I
Identification Number: UN2031
Hazard Class: 8
Label Codes: 8,5.1
ERG Code (IATA): 8X

14.4 In Accordance with TDG
Proper Shipping Name: NITRIC ACID
Packing Group: I
Identification Number: UN2031
Hazard Class: 8
Label Codes: 8,5.1

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Concentrated Nitric Acid

SARA Section 311/312 Hazard Classes
Immediate (acute) health hazard
Reactive hazard
Fire hazard

Nitric acid (7697-37-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on SARA Section 302 (Specific toxic chemical listings)
Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 302 Threshold Planning Quantity (TPQ) 1000
SARA Section 313 - Emission Reporting 1.0 %

US State Regulations

Nitric acid (7697-37-2)
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
U.S. - California - SCAQMD - Toxic Air Contaminants With Proposed Risk Values
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
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| U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet |
| U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater |
| U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet |
| U.S. - Wyoming - Process Safety Management - Highly Hazardous Chemicals |

### Canadian Regulations

<table>
<thead>
<tr>
<th>Concentrated Nitric Acid</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHMIS Classification</td>
</tr>
<tr>
<td>Class E - Corrosive Material</td>
</tr>
<tr>
<td>Class C - Oxidizing Material</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nitric acid (7697-37-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Substances List) inventory.</td>
</tr>
<tr>
<td>Listed on the Canadian Ingredient Disclosure List</td>
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<tr>
<td>WHMIS Classification</td>
</tr>
<tr>
<td>Class C - Oxidizing Material</td>
</tr>
<tr>
<td>Class E - Corrosive Material</td>
</tr>
</tbody>
</table>

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION

**Revision date**: November 2014

**Other Information**: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Met. Corr. 1 | Corrosive to metals Category 1 |
| Ox. Liq. 3 | Oxidizing liquids Category 3 |
| Skin Corr. 1A | Skin corrosion/irritation Category 1A |
| H272 | May intensify fire; oxidizer |
| H290 | May be corrosive to metals |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |

**NFPA Health Hazard**: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

**NFPA Fire Hazard**: 0 - Materials that will not burn.

**NFPA Reactivity**: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

**NFPA Specific Hazard**: OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.

### Party Responsible for the Preparation of This Document

El Dorado Chemical Company
P.O. Box 231
El Dorado, AR 71731
(870) 863-1400

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*