Sodium Chlorate with anti-clumping agent

Safety Data Sheet
Revision Date: 11/27/17 Date of Issue: 11/27/2017 Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier
Product Form: Mixture
Product Name: Sodium Chlorate with anti-clumping agent

Intended Use of the Product
Mainly used in the on-site production of chlorine dioxide for bleaching pulp. Also, used in the manufacture of dyes, explosives & matches, perchlorate manufacturing, ore processing, leather tanning and finishing, production of oxygen in rescue breathing apparatus, as an oxidizing agent, analytical reagent and herbicide.

Name, Address, and Telephone of the Responsible Party
Manufacturer
CHEMTRADE LOGISTICS INC.
155 Gordon Baker Road
Suite 300
Toronto, Ontario M2H 3N5
For SDS Info: (416) 496-5856
www.chemtradelogistics.com

Emergency Telephone Number
Emergency Number : Canada: CANUTEC +1-613-996-6666 / US: CHEMTREC +1-800-424-9300
INTERNATIONAL: +1-703-741-5970
Chemtrade Emergency Contact: (866) 416-4404
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture
GHS Classification
Ox. Sol. 1 H271
Acute Tox. 4 (Oral) H302
Aquatic Chronic 2 H411

Full text of hazard classes and H-statements : see section 16

Label Elements
GHS Labeling
Hazard Pictograms :

Signal Word
Danger

Hazard Statements
H271 - May cause fire or explosion; strong oxidizer.
H302 - Harmful if swallowed.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 - Keep away from clothing and other combustible materials.
P221 – Take any precaution to avoid mixing with combustibles and other incompatible materials
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
P301+P312+P330 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.
Other Hazards
Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Overexposure may cause methemoglobinemia. Initial manifestation of methemoglobinemia is cyanosis, characterized by navy lips, tongue and mucous membranes, with skin color being slate grey. Further manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor, respiratory distress and death due to anoxia.

Thermally unstable at elevated temperatures. (>265°C)

Unknown acute toxicity
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Product Identifier</th>
<th>%*</th>
<th>GHS Ingredient Classification</th>
</tr>
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<tbody>
<tr>
<td>Sodium chlorate</td>
<td>(CAS-No.) 7775-09-9</td>
<td>&gt; 99</td>
<td>Ox. Sol. 1, H271, Acute Tox. 4 (Oral), H302, Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Silica, amorphous, precipitated and gel</td>
<td>(CAS-No.) 112926-00-8</td>
<td>&lt; 1</td>
<td>Comb. Dust</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

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. Obtain medical attention if breathing difficulty persists.

**Skin Contact**: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Get medical advice/attention. Wash clothing before storing or reuse. Clean shoes thoroughly before reuse.

**Eye Contact**: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion**: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

**Most Important Symptoms and Effects Both Acute and Delayed**

**General**: Harmful if swallowed. Overexposure to this material may result in methemoglobinemia. Methemoglobinemia decreases the blood’s ability to carry oxygen and results in symptoms such as dizziness, drowsiness, headache, shortness of breath, blue skin and lips, rapid heart rate, unconsciousness, and possibly death.

**Inhalation**: Prolonged exposure may cause irritation.

**Skin Contact**: Prolonged exposure may cause skin irritation.

**Eye Contact**: May cause slight irritation to eyes.

**Ingestion**: This material is harmful orally and can cause adverse health effects or death in significant amounts.

**Chronic Symptoms**: None expected under normal conditions of use.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.
SECTION 5: FIRE-FIGHTING MEASURES

**Extinguishing Media**

Suitable Extinguishing Media: Water. Use water spray or fog.

Unsuitable Extinguishing Media: Do not use dry extinguishing powder. Foam. Carbon dioxide (CO₂). Do not use fire blanket.

**Special Hazards Arising From the Substance or Mixture**

- **Fire Hazard:** May cause fire or explosion; strong oxidizer.
- **Explosion Hazard:** Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- **Reactivity:** Oxidizer: increases the burning rate of combustible materials.

**Advice for Firefighters**

- **Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.
- **Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
- **Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.
- **Hazardous Combustion Products:** Irritating or toxic vapors. Halogenated compounds, metal oxide/oxides.
- **Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

**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:** Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking, flames, hot surfaces, sparks, or other ignition sources in the area. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust. Keep away from combustible material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For Non-Emergency Personnel**

- **Protective Equipment:** Use appropriate personal protective equipment (PPE).
- **Emergency Procedures:** Evacuate unnecessary personnel.

**For Emergency Personnel**

- **Protective Equipment:** Equip cleanup crew with proper protection.
- **Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

**Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

**Methods and Materials for Containment and Cleaning Up**

- **For Containment:** Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Use only non-sparking tools.
- **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

**Reference to Other Sections**

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

**Precautions for Safe Handling**

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing dust. Keep away from heat, sparks, open flames, hot surfaces, combustible materials, incompatible materials. - No smoking. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing.

**Additional Hazards When Processed:** May cause fire or explosion; strong oxidizer.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

**Conditions for Safe Storage, Including Any Incompatibilities**

- **Technical Measures:** Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.
Sodium Chlorate with anti-clumping agent
Safety Data Sheet

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from extremely high or low temperatures, incompatible materials, food and drink. Keep in fireproof place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.


Specific End Use(s)
Mainly used in the on-site production of chlorine dioxide for bleaching pulp. Also, used in the manufacture of dyes, explosives & matches, perchlorate manufacturing, ore processing, leather tanning and finishing, production of oxygen in rescue breathing apparatus, as an oxidizing agent, analytical reagent and herbicide.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters
For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

<table>
<thead>
<tr>
<th>Silica, amorphous, precipitated and gel (112926-00-8)</th>
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<tbody>
<tr>
<td>Mexico</td>
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<td>British Columbia</td>
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<tr>
<td>New Brunswick</td>
</tr>
<tr>
<td>Nunavut</td>
</tr>
<tr>
<td>Nunavut</td>
</tr>
<tr>
<td>Northwest Territories</td>
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<tr>
<td>Northwest Territories</td>
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</tr>
<tr>
<td>Saskatchewan</td>
</tr>
<tr>
<td>Saskatchewan</td>
</tr>
</tbody>
</table>

Exposure Controls
Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles or safety glasses.

Materials for Protective Clothing: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

Hand Protection: Wear protective gloves.

Eye Protection: Chemical safety goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

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>Physical State</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless or white</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
</tbody>
</table>
Sodium Chlorate with anti-clumping agent

Safety Data Sheet


Odor Threshold : Not available
pH : Not available
Evaporation Rate : Not available
Melting Point : Not available
Freezing Point : Not available
Boiling Point : Not available
Flash Point : Not applicable
Auto-ignition Temperature : Not applicable
Decomposition Temperature : 265 °C (509 °F)
Flammability (solid, gas) : Not applicable
Lower Flammable Limit : Not applicable
Upper Flammable Limit : Not applicable
Vapor Pressure : 0 mm Hg does not form a vapor
Relative Vapor Density at 20°C : Not available
Relative Density : Not available
Specific Gravity : 2.49 g/cm³
Solubility : Soluble.
Water: 96 - 100 g/100ml @ 20°C (68 °F)
Partition Coefficient: N-Octanol/Water : Log Pow -7.18 (estimated)
Viscosity : Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Oxidizer: increases the burning rate of combustible materials.
Chemical Stability: May cause fire or explosion; strong oxidizer.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Extremely high or low temperatures and incompatible materials. Sparks, heat, open flame, combustible materials, organic material and other sources of ignition.
Incompatible Materials: Strong acids. Reducing agents. Organic materials. Mixture with flammable or combustible materials may ignite readily or explode and be sensitive to shock, heat, or friction. Mixtures of dry sodium chlorate with organic materials such as cloth, paper, leather, oils, greases, paints, and solvents may be readily ignited by heat or friction. Reacts violently with combustibles, sulfuric acid, and reducing materials. Explosions may be caused by contact with ammonia salts, ammonium thiosulfate, antimony sulfide, arsenic, carbon, charcoal, organic matter, organic acids, thiocyanates, chemically active metals, oils, metal sulfides, nitrobenzene, powdered metals, and sugar. Reacts with many organic materials to form shock-sensitive mixtures, causing explosion hazard.
Hazardous Decomposition Products: None expected under normal conditions of use. Decomposes at 265°C into oxygen and salt. Reacts with acids to produce chlorine, chlorine dioxide and perchloric acid.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Oral: Harmful if swallowed.
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data:

| Sodium Chlorate with anti-clumping agent ATE (Oral) | 1,212.12 mg/kg body weight |

Skin Corrosion/Irritation: Not classified
Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Sodium Chlorate with anti-clumping agent
Safety Data Sheet

Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Effects After Inhalation: Prolonged exposure may cause irritation.
Symptoms/Effects After Skin Contact: Prolonged exposure may cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/Effects After Eye Contact: May cause slight irritation to eyes.
Symptoms/Effects After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts. Ingesting large quantities can cause abdominal pain, nausea, and diarrhea, possibly with dark blood, cyanosis, possibly progressing to headache, difficulty breathing, dizziness, seizures, or coma. Symptoms may include redness and edema.
Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)
LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Sodium chlorate (7775-09-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LD50 Oral Rat</strong></td>
</tr>
<tr>
<td><strong>LD50 Dermal Rabbit</strong></td>
</tr>
<tr>
<td><strong>LC50 Inhalation Rat</strong></td>
</tr>
</tbody>
</table>

Sodium chlorate (7775-09-9)
National Toxicology Program (NTP) Status
Some evidence of carcinogenic activity.
Silica, amorphous, precipitated and gel (112926-00-8)
IARC Group 3

SECTION 12: ECOLOGICAL INFORMATION
Toxicity
Ecology - General: Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Sodium chlorate (7775-09-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LC50 Fish 1</strong></td>
</tr>
<tr>
<td><strong>LC50 Fish 2</strong></td>
</tr>
</tbody>
</table>

Persistence and Degradability
Sodium Chlorate with anti-clumping agent
Persistence and Degradability
May cause long-term adverse effects in the environment.

Bioaccumulative Potential
Sodium Chlorate with anti-clumping agent
Bioaccumulative Potential
Not established.

Mobility in Soil
Not available

Other Adverse Effects
Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS
Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION
The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.
Sodium Chlorate with anti-clumping agent

Safety Data Sheet


*When shipped in accordance with US DOT 49 CFR part 171.4(c) and other appropriate sections/provisions this material is not designated as a marine pollutant when transported by road or rail.

**When shipped in accordance with the Canada Transport of Dangerous Goods Regulations part 1.45.1 and other appropriate sections/provisions this material is not designated as a marine pollutant when transported by road or rail.

Special precautions for user: Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

<table>
<thead>
<tr>
<th>TRANSPORTATION CLASSIFICATION</th>
<th>DOT</th>
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<td>Environmental Hazards</td>
<td>Marine Pollutant : Yes*</td>
<td>Marine Pollutant : Yes**</td>
<td>Marine Pollutant : Yes</td>
<td>Marine Pollutant: N/A</td>
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<td>Emergency Response</td>
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<td>ERAP Index: Not applicable</td>
<td>EMS: F-H, S-Q</td>
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<td>Additional Information</td>
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SECTION 15: REGULATORY INFORMATION

US Federal Regulations

<table>
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<tr>
<th>Chemical Name (CAS No.)</th>
<th>CERCLA RQ</th>
<th>EPCRA 304 RQ</th>
<th>SARA 302 TPQ</th>
<th>SARA 313</th>
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<tr>
<td>Silica, amorphous, precipitated and gel (112926-00-8)</td>
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<td>Not applicable</td>
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</table>

SARA 311/313

Sodium Chlorate with anti-clumping agent
Fire hazard. Immediate (acute) health hazard

US TSCA Flags Not present

US State Regulations

California Proposition 65

<table>
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<tr>
<th>Chemical Name (CAS No.)</th>
<th>Carcinogenicity</th>
<th>Developmental Toxicity</th>
<th>Female Reproductive Toxicity</th>
<th>Male Reproductive Toxicity</th>
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</tbody>
</table>

State Right-To-Know Lists

Sodium chlorate (7775-09-9)

| U.S. - Massachusetts - Right To Know List - Yes |
| U.S. - New Jersey - Right to Know Hazardous Substance List - Yes |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No |
| U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No |
| U.S. - Pennsylvania - RTK (Right to Know) List - Yes |

Silica, amorphous, precipitated and gel (112926-00-8)

| U.S. - Massachusetts - Right To Know List - Yes |
| U.S. - New Jersey - Right to Know Hazardous Substance List - Yes |

11/27/2017 EN (English US) SDS#: CHE-8024S 7/9
Sodium Chlorate with anti-clumping agent

Safety Data Sheet


U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - Yes

**Canadian Regulations**

**Sodium chlorate (7775-09-9)**
Listed on the Canadian DSL (Domestic Substances List)
Not listed on the Canadian NDSL (Non-Domestic Substances List)

**Silica, amorphous, precipitated and gel (112926-00-8)**
Listed on the Canadian DSL (Domestic Substances List)
Not listed on the Canadian NDSL (Non-Domestic Substances List)

**International Inventories/Lists**

<table>
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<tr>
<th>Chemical Name (CAS No.)</th>
<th>Australia AICS</th>
<th>Turkey CICR</th>
<th>Korea ECL</th>
<th>EU EINECS</th>
<th>EU ELINCS</th>
<th>EU SVHC</th>
<th>EU NLP</th>
<th>Mexico INSQ</th>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<th>China IECSC</th>
<th>Japan ENCS</th>
<th>Japan ISHL</th>
<th>Japan PDSCL</th>
<th>Japan PRTR</th>
<th>Philippines PICCS</th>
<th>New Zealand NZIOC</th>
<th>US TSCA</th>
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<tr>
<td>Sodium chlorate (7775-09-9)</td>
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<td>Yes</td>
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<td>Silica, amorphous, precipitated and gel (112926-00-8)</td>
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<td>Yes</td>
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**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

Date of Preparation or Latest Revision: 11/27/2017

**Revision Summary**

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Date Changed</th>
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</thead>
<tbody>
<tr>
<td>New Product</td>
<td></td>
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</table>

**Other Information**

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada’s Hazardous Products Regulations (HPR).

**GHS Full Text Phrases:**

- **Acute Tox. 4 (Oral)**: Acute toxicity (oral) Category 4
- **Aquatic Chronic 2**: Hazardous to the aquatic environment - Chronic Hazard Category 2
- **Comb. Dust**: Combustible Dust
- **Ox. Sol. 1**: Oxidizing solids Category 1
- **H271**: May cause fire or explosion; strong oxidizer
- **H302**: Harmful if swallowed
- **H411**: Toxic to aquatic life with long lasting effects

**NFPA 704**

- **NFPA Health Hazard**: 1
- **NFPA Fire Hazard**: 0
- **NFPA Reactivity Hazard**: 3
- **NFPA Specific Hazards**: OX - Materials that posses oxidizing properties.

**HMIS Rating**

- **Health**: 1
Flammability : 0
Physical : 3
PPE  See Section 8

Abbreviations and Acronyms

AICS – Australian Inventory of Chemical Substances
ACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
ATE – Acute Toxicity Estimate
BCF - Bioconcentration factor
BEI - Biological Exposure Indices (BEI)
CAS No. - Chemical Abstracts Service number
CERCLA RQ - Comprehensive Environmental Response, Compensation, and Liability Act - Reportable Quantity
EC50 - Median effective concentration
ENCS - Japanese Existing and New Chemical Substances Inventory
EPA – Environmental Protection Agency
EPCRA 304 RQ – EPCRA 304 Extremely Hazardous Substance Emergency Planning and Community Right-to-Know-Act – Reportable Quantity
ERAP Index – Emergency Response Assistance Plan Quantity Limit
ErSGO - ECSO in Terms of Reduction Growth Rate
ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)
ERG No. - Emergency Response Guide Number
HCCL - Hazard Communication Carcinogen List
HMIS – Hazardous Materials Information System
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association – Dangerous Goods Regulations
IDLH - Immediately Dangerous to Life or Health
IECSC - Inventory of Existing Chemical Substances Produced or Imported in China
IMDG - International Maritime Dangerous Goods Code
INSQ - Mexican National Inventory of Chemical Substances
ISHL - Japan Industrial Safety and Health Law

LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEI - Lowest Observed Adverse Effect Level
LOEC - Lowest-observed-effect Concentration
Log Pow - Octanol/water Partition Coefficient
NIOSH - National Institute for Occupational Safety and Health
NLP - Europe No Longer Polymers List
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
NZIOC - New Zealand Inventory of Chemicals
OEL - Occupational Exposure Limits
OSHA – Occupational Safety and Health Administration
PEL - Permissible Exposure Limits
PICCS - Philippine Inventory of Chemicals and Chemical Substances
PDSCL - Japan Poisonous and Deleterious Substances Control Law
PPE – Personal Protective Equipment
PRTR - Japan Pollutant Release and Transfer Register
REL - Recommended Exposure Limit
SADT - Self Accelerating Decomposition Temperature
SARA - Superfund Release and Transfer Register
SARA 302 - Section 302, 40 CFR Part 35
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SARA 302 - Section 302, 40 CFR Part 35
SARA 313 - Section 313, 40 CFR Part 37
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SRCL - Specifically Regulated Carcinogen List
STEL - Short Term Exposure Limit
SVHC – European Candidate List of Substance of Very High Concern
TDG – Transport Canada Transport of Dangerous Goods Regulations
TLM - Median Tolerance Limit
TLV - Threshold Limit Value
TPQ - Threshold Planning Quantity
TSCA – United StatesToxic Substances Control Act
TWA - Time Weighted Average
WEEL - Workplace Environmental Exposure Levels

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