

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Performacide Room Odor Eliminator

**Product Code:** 142010

**Note:** This product, in contact with air or moisture, evolves chlorine dioxide gas. The hazard information for this is contained in section 2.3 and 3.

#### Intended Use of the Product

Deodorizer

#### Name, Address, and Telephone of the Responsible Party

##### Company

OdorStar LLC.  
 4041 SW 47<sup>th</sup> Avenue  
 Fort Lauderdale, FL 33314  
 (800)327-8583

[www.starbrite.com](http://www.starbrite.com)

#### Emergency Telephone Number

**Emergency Number** : US: (800) 424-9300; International: (703) 527-3887 (CHEMTREC)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### Classification (GHS-US)

Comb. Dust

Acute Tox. 4 (Oral) H302

Acute Tox. 3 (Dermal) H311

Skin Corr. 1B H314

Eye Dam. 1 H318

STOT RE 2 H373

Full text of H-phrases: see section 16

#### Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Danger

##### Hazard Statements (GHS-US)

: May form combustible dust concentrations in air.  
 H302 - Harmful if swallowed.  
 H311 - Toxic in contact with skin.  
 H314 - Causes severe skin burns and eye damage.  
 H318 - Causes serious eye damage.  
 H373 - May cause damage to organs (Spleen) through prolonged or repeated exposure.

##### Precautionary Statements (GHS-US)

: P260 - Do not breathe dust, mist.  
 P264 - Wash hands, forearms, and exposed areas thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
 P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position

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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.

P330 - Rinse mouth.

P361 - Take off immediately all contaminated clothing.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Aquatic Acute 1 H400

H400 - Very toxic to aquatic life.

P273 - Avoid release to the environment.



**Note:** This product, in contact with air or moisture, evolves chlorine dioxide gas. The product is designed to generate chlorine dioxide solution when the pouch is placed in specified amount of water. The product design limits both the amount of gas generated and the rate of release. High amount of chlorine dioxide gas is fatal if inhaled and causes severe skin burns and eye damage.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

| Name             | Product Identifier  | % (w/w) | Classification (GHS-US)  |
|------------------|---------------------|---------|--|
| Citric acid      | (CAS No) 77-92-9    | 66.8    | Combustible Dust<br>Eye Irrit. 2A, H319  |
| Sodium chlorite  | (CAS No) 7758-19-2  | 20      | Ox. Sol. 1, H271<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 2 (Dermal), H310<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 3, H412 |
| Calcium chloride | (CAS No) 10043-52-4 | 13.2    | Eye Irrit. 2A, H319  |

**Note:** This product, in contact with air or moisture, evolves chlorine dioxide gas. The product is designed to generate chlorine dioxide solution when the pouch is placed in specified amount of water. The product design limits both the amount of gas generated and the rate of release. The composition for this is below.

| Name             | Product Identifier  | %   | Classification (GHS-US)   |
|------------------|---------------------|-----|---|
| Chlorine dioxide | (CAS No) 10049-04-4 | 100 | Ox. Gas 1, H270<br>Compressed gas, H280<br>Acute Tox. 1 (Inhalation:gas), H330<br>Skin Corr. 1B, H314<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

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 exposed or concerned: Get medical advice/attention.

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Ventilate the area.

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**Skin Contact:** Immediately flush skin with plenty of water for at least 60 minutes; Remove contaminated clothing; Immediately call a POISON CENTER or doctor; 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 for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

**Ingestion:** Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

**General:** Causes severe skin burns and eye damage. Harmful if swallowed. Toxic in contact with skin. Causes damage to organs (Spleen) through prolonged or repeated exposure. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. If chlorine dioxide gas is evolved (due to contact with air or moisture), it is fatal if inhaled and causes severe skin burns and eye damage.

**Inhalation:** Repeated or prolonged inhalation may damage lungs. Chlorine dioxide gas is fatal if inhaled.

**Skin Contact:** Toxic in contact with skin. Corrosive. Causes burns.

**Eye Contact:** Causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva.

**Ingestion:** Harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** Causes damage to organs (Spleen) through prolonged or repeated exposure.

### **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:** Dry chemical, carbon dioxide (CO<sub>2</sub>), water spray, fog (flooding amounts).

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Heavy stream of water may spread fire.

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

**Fire Hazard:** Not flammable but will support combustion.

**Explosion Hazard:** Product itself is not explosive but if dust is generated, dust clouds suspended in air can be explosive.

**Reactivity:** SODIUM CHLORITE is self-reactive. The trihydrate crystals of sodium chlorite explode on percussion. Sodium chlorite reacts with acids to form spontaneously explosive chlorine dioxide gas (ClO<sub>2</sub>). If heated above 175 °C, the reaction yields enough heat to become self sustaining. Ammonia with chlorites produces ammonium chlorite, which is a shock-sensitive compound. Finely divided metallic or organic substances, if mixed with chlorites, are highly flammable and may be ignited on friction. A mixture of organic matter and sodium chlorite can be extremely sensitive to heat, impact, or friction. Sodium chlorite reacts very violently with organic materials containing divalent sulfur or with free sulfur (may ignite).

### **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. Do not allow run-off from firefighting to enter drains or water sources. Do not breathe fumes from fires or vapors from decomposition. Closed containers exposed to heat may explode.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Sodium oxides. Sulfur compounds. Chlorine. Corrosive 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 get in eyes, on skin, or on clothing. Do not breathe dust or fumes. Keep away from heat, sparks, open flames, hot surfaces – No smoking. Eliminate every possible source of ignition. Evacuate danger area.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**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.

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### **Environmental Precautions**

Prevent entry to sewers and public waters.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** As an immediate precautionary measure, isolate spill or leak area in all directions. Contain and collect as any solid.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Take up with inert, damp, non-combustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal. Contact competent authorities after a spill.

### **Reference to Other Sections**

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Additional Hazards When Processed:** Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

**Precautions for Safe Handling:** Do not handle until all safety precautions have been read and understood. Do not breathe dust. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Do not allow contact with incompatible materials (see section 10).

**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. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

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

**Technical Measures:** Container remains hazardous when empty. Continue to observe all precautions. Ensure all national/local regulations are observed.

**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 direct sunlight, extremely high or low temperatures, and incompatible materials. Store locked up.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers. Combustible materials. May react with moisture. Flammable materials. Organic compounds. Wood. Oils and lubricants.

### **Specific End Use(s)**

Deodorizer

## **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), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

#### **Calcium chloride (10043-52-4)**

|                |                              |                     |
|----------------|------------------------------|---------------------|
| <b>Ontario</b> | OEL TWA (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup> |
|----------------|------------------------------|---------------------|

**Note:** This product, in contact with air or moisture, evolves chlorine dioxide gas. The product is designed to generate chlorine dioxide solution when the pouch is placed in specified amount of water. The product design limits both the amount of gas generated and the rate of release. The exposure limits for this are contained below.

#### **Chlorine dioxide (10049-04-4)**

|                  |                                       |                       |
|------------------|---------------------------------------|-----------------------|
| <b>Mexico</b>    | OEL TWA (mg/m <sup>3</sup> )          | 0.3 mg/m <sup>3</sup> |
| <b>Mexico</b>    | OEL TWA (ppm)                         | 0.1 ppm               |
| <b>Mexico</b>    | OEL STEL (mg/m <sup>3</sup> )         | 0.9 mg/m <sup>3</sup> |
| <b>Mexico</b>    | OEL STEL (ppm)                        | 0.3 ppm               |
| <b>USA ACGIH</b> | ACGIH TWA (ppm)                       | 0.1 ppm               |
| <b>USA ACGIH</b> | ACGIH STEL (ppm)                      | 0.3 ppm               |
| <b>USA OSHA</b>  | OSHA PEL (TWA) (mg/m <sup>3</sup> )   | 0.3 mg/m <sup>3</sup> |
| <b>USA OSHA</b>  | OSHA PEL (TWA) (ppm)                  | 0.1 ppm               |
| <b>USA NIOSH</b> | NIOSH REL (TWA) (mg/m <sup>3</sup> )  | 0.3 mg/m <sup>3</sup> |
| <b>USA NIOSH</b> | NIOSH REL (TWA) (ppm)                 | 0.1 ppm               |
| <b>USA NIOSH</b> | NIOSH REL (STEL) (mg/m <sup>3</sup> ) | 0.9 mg/m <sup>3</sup> |
| <b>USA NIOSH</b> | NIOSH REL (STEL) (ppm)                | 0.3 ppm               |

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|                                    |                                    |                              |
|------------------------------------|------------------------------------|------------------------------|
| <b>USA IDLH</b>                    | <b>US IDLH (ppm)</b>               | <b>5 ppm</b>                 |
| <b>Alberta</b>                     | <b>OEL STEL (mg/m<sup>3</sup>)</b> | <b>0.8 mg/m<sup>3</sup></b>  |
| <b>Alberta</b>                     | <b>OEL STEL (ppm)</b>              | <b>0.3 ppm</b>               |
| <b>Alberta</b>                     | <b>OEL TWA (mg/m<sup>3</sup>)</b>  | <b>0.3 mg/m<sup>3</sup></b>  |
| <b>Alberta</b>                     | <b>OEL TWA (ppm)</b>               | <b>0.1 ppm</b>               |
| <b>British Columbia</b>            | <b>OEL STEL (ppm)</b>              | <b>0.3 ppm</b>               |
| <b>British Columbia</b>            | <b>OEL TWA (ppm)</b>               | <b>0.1 ppm</b>               |
| <b>Manitoba</b>                    | <b>OEL STEL (ppm)</b>              | <b>0.3 ppm</b>               |
| <b>Manitoba</b>                    | <b>OEL TWA (ppm)</b>               | <b>0.1 ppm</b>               |
| <b>New Brunswick</b>               | <b>OEL STEL (mg/m<sup>3</sup>)</b> | <b>0.83 mg/m<sup>3</sup></b> |
| <b>New Brunswick</b>               | <b>OEL STEL (ppm)</b>              | <b>0.3 ppm</b>               |
| <b>New Brunswick</b>               | <b>OEL TWA (mg/m<sup>3</sup>)</b>  | <b>0.28 mg/m<sup>3</sup></b> |
| <b>New Brunswick</b>               | <b>OEL TWA (ppm)</b>               | <b>0.1 ppm</b>               |
| <b>Newfoundland &amp; Labrador</b> | <b>OEL STEL (ppm)</b>              | <b>0.3 ppm</b>               |
| <b>Newfoundland &amp; Labrador</b> | <b>OEL TWA (ppm)</b>               | <b>0.1 ppm</b>               |
| <b>Nova Scotia</b>                 | <b>OEL STEL (ppm)</b>              | <b>0.3 ppm</b>               |
| <b>Nova Scotia</b>                 | <b>OEL TWA (ppm)</b>               | <b>0.1 ppm</b>               |
| <b>Nunavut</b>                     | <b>OEL STEL (mg/m<sup>3</sup>)</b> | <b>0.82 mg/m<sup>3</sup></b> |
| <b>Nunavut</b>                     | <b>OEL STEL (ppm)</b>              | <b>0.3 ppm</b>               |
| <b>Nunavut</b>                     | <b>OEL TWA (mg/m<sup>3</sup>)</b>  | <b>0.27 mg/m<sup>3</sup></b> |
| <b>Nunavut</b>                     | <b>OEL TWA (ppm)</b>               | <b>0.1 ppm</b>               |
| <b>Northwest Territories</b>       | <b>OEL STEL (mg/m<sup>3</sup>)</b> | <b>0.82 mg/m<sup>3</sup></b> |
| <b>Northwest Territories</b>       | <b>OEL STEL (ppm)</b>              | <b>0.3 ppm</b>               |
| <b>Northwest Territories</b>       | <b>OEL TWA (mg/m<sup>3</sup>)</b>  | <b>0.27 mg/m<sup>3</sup></b> |
| <b>Northwest Territories</b>       | <b>OEL TWA (ppm)</b>               | <b>0.1 ppm</b>               |
| <b>Ontario</b>                     | <b>OEL STEL (ppm)</b>              | <b>0.3 ppm</b>               |
| <b>Ontario</b>                     | <b>OEL TWA (ppm)</b>               | <b>0.1 ppm</b>               |
| <b>Prince Edward Island</b>        | <b>OEL STEL (ppm)</b>              | <b>0.3 ppm</b>               |
| <b>Prince Edward Island</b>        | <b>OEL TWA (ppm)</b>               | <b>0.1 ppm</b>               |
| <b>Québec</b>                      | <b>VECD (mg/m<sup>3</sup>)</b>     | <b>0.83 mg/m<sup>3</sup></b> |
| <b>Québec</b>                      | <b>VECD (ppm)</b>                  | <b>0.3 ppm</b>               |
| <b>Québec</b>                      | <b>VEMP (mg/m<sup>3</sup>)</b>     | <b>0.28 mg/m<sup>3</sup></b> |
| <b>Québec</b>                      | <b>VEMP (ppm)</b>                  | <b>0.1 ppm</b>               |
| <b>Saskatchewan</b>                | <b>OEL STEL (ppm)</b>              | <b>0.3 ppm</b>               |
| <b>Saskatchewan</b>                | <b>OEL TWA (ppm)</b>               | <b>0.1 ppm</b>               |
| <b>Yukon</b>                       | <b>OEL STEL (mg/m<sup>3</sup>)</b> | <b>0.9 mg/m<sup>3</sup></b>  |
| <b>Yukon</b>                       | <b>OEL STEL (ppm)</b>              | <b>0.3 ppm</b>               |
| <b>Yukon</b>                       | <b>OEL TWA (mg/m<sup>3</sup>)</b>  | <b>0.3 mg/m<sup>3</sup></b>  |
| <b>Yukon</b>                       | <b>OEL TWA (ppm)</b>               | <b>0.1 ppm</b>               |

### 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. Proper grounding procedures to avoid static electricity should be followed. Ensure all national/local regulations are observed. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

**Personal Protective Equipment:** Gloves. Protective goggles. Face shield. Protective clothing. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

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**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles and face shield.

**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.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

|  |   |
|--|---|
| <b>Physical State</b>                                    | : Solid   |
| <b>Appearance</b>  | : White powder  |
| <b>Odor</b>  | : Chlorine  |
| <b>Odor Threshold</b>                                    | : Not available   |
| <b>pH</b>  | : Not available   |
| <b>Evaporation Rate</b>                                  | : Not available   |
| <b>Melting Point</b>                                     | : Not available   |
| <b>Freezing Point</b>                                    | : Not available   |
| <b>Boiling Point</b>                                     | : Not available   |
| <b>Flash Point</b>                                       | : Not available   |
| <b>Auto-ignition Temperature</b>                         | : Not available   |
| <b>Decomposition Temperature</b>                         | : Not available   |
| <b>Flammability (solid, gas)</b>                         | : Not available   |
| <b>Lower Flammable Limit</b>                             | : Not available   |
| <b>Upper Flammable Limit</b>                             | : Not available   |
| <b>Vapor Pressure</b>                                    | : Not available   |
| <b>Relative Vapor Density at 20 °C</b>                   | : Not available   |
| <b>Relative Density</b>                                  | : Not available   |
| <b>Specific Gravity</b>                                  | : Not available   |
| <b>Solubility</b>  | : Soluble in water  |
| <b>Partition Coefficient: N-Octanol/Water</b>            | : Not available   |
| <b>Viscosity</b>   | : Not available   |
| <b>Explosive Properties</b>                              | : Heating may cause a fire or explosion                                 |
| <b>Explosion Data – Sensitivity to Mechanical Impact</b> | : Not expected to present an explosion hazard due to mechanical impact. |
| <b>Explosion Data – Sensitivity to Static Discharge</b>  | : Static discharge could act as an ignition source.                     |

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** SODIUM CHLORITE is self-reactive. The trihydrate crystals of sodium chlorite explode on percussion. Sodium chlorite reacts with acids to form spontaneously explosive chlorine dioxide gas (ClO<sub>2</sub>). If heated above 175 °C, the reaction yields enough heat to become self sustaining. Ammonia with chlorites produces ammonium chlorite, which is a shock-sensitive compound. Finely divided metallic or organic substances, if mixed with chlorites, are highly flammable and may be ignited on friction. A mixture of organic matter and sodium chlorite can be extremely sensitive to heat, impact, or friction. Sodium chlorite reacts very violently with organic materials containing divalent sulfur or with free sulfur (may ignite).

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Overheating. Open flame.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers. Combustible materials. Flammable materials. Organic compounds. Wood. Oils and Lubricants. Moisture.

**Hazardous Decomposition Products:** Thermal decomposition generates : Corrosive vapors. Chlorine. Sodium oxides. Sulfur compounds. Carbon oxides (CO, CO<sub>2</sub>).

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### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Oral: Harmful if swallowed. Dermal: Toxic in contact with skin.

#### ID50 and IC50 Data:

| Performacide Room Odor Eliminator |                          |
|-----------------------------------|--------------------------|
| ATE US (oral)                     | 825.00 mg/kg body weight |
| ATE US (dermal)                   | 536.00 mg/kg body weight |

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs through prolonged or repeated exposure.

**Reproductive Toxicity:** Not classified

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

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Repeated or prolonged inhalation may damage lungs. Chlorine dioxide gas is fatal if inhaled.

**Symptoms/Injuries After Skin Contact:** Toxic in contact with skin. Corrosive. Causes burns.

**Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** Harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** Causes damage to organs (Spleen) through prolonged or repeated exposure.

#### Information on Toxicological Effects - Ingredient(s)

#### ID50 and IC50 Data:

| Sodium chlorite (7758-19-2)   |                          |
|-------------------------------|--------------------------|
| ID50 Oral Rat                 | 165 mg/kg                |
| ID50 Dermal Rabbit            | 107.2 mg/kg              |
| Citric acid (77-92-9)         |                          |
| ID50 Oral Rat                 | 5400 mg/kg               |
| ID50 Dermal Rat               | > 2000 mg/kg             |
| Calcium chloride (10043-52-4) |                          |
| ID50 Oral Rat                 | 2301 (1455 - 2781) mg/kg |
| ID50 Dermal Rat               | 2630 mg/kg               |
| ID50 Dermal Rabbit            | > 5000 mg/kg             |
| Sodium chlorite (7758-19-2)   |                          |
| IARC Group                    | 3                        |

### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

**Ecology - General:** Very toxic to aquatic life.

| Sodium chlorite (7758-19-2)   |  |
|-------------------------------|--|
| IC50 Fish 1                   | 100 - 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])     |
| EC50 Daphnia 1                | 0.026 mg/l (Exposure time: 48 h - Species: Daphnia magna)                      |
| IC 50 Fish 2                  | > 100 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])       |
| EC50 Daphnia 2                | 0.25 - 0.33 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through]) |
| Citric acid (77-92-9)         |  |
| IC50 Fish 1                   | 1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])        |
| Calcium chloride (10043-52-4) |  |
| IC50 Fish 1                   | 10650 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])       |

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|                |  |
|----------------|--|
| EC50 Daphnia 1 | 2400 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
|----------------|--|

### Persistence and Degradability

|                       |  |
|-----------------------|--|
| Citric acid (77-92-9) |  |
|-----------------------|--|

|                               |                                 |
|-------------------------------|---------------------------------|
| Persistence and Degradability | Readily biodegradable in water. |
|-------------------------------|---------------------------------|

### Bioaccumulative Potential

|                       |  |
|-----------------------|--|
| Citric acid (77-92-9) |  |
|-----------------------|--|

|         |                  |
|---------|------------------|
| Log Pow | -1.72 (at 20 °C) |
|---------|------------------|

|                               |  |
|-------------------------------|--|
| Calcium chloride (10043-52-4) |  |
|-------------------------------|--|

|            |                      |
|------------|----------------------|
| BCF Fish 1 | (no bioaccumulation) |
|------------|----------------------|

Mobility in Soil Not available

### Other Adverse Effects

Other Information: Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Sewage Disposal Recommendations:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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

**Ecology – Waste Materials:** Hazardous waste due to toxicity.

## SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG/IMDG

### UN Number

|               |          |
|---------------|----------|
| UN-No. (DOT)  | : 3262   |
| UN-No. (TDG)  | : UN3262 |
| UN-No. (IMDG) | : 3262   |
| UN-No. (IATA) | : 3262   |

### UN Proper Shipping Name

**Proper Shipping Name (DOT)** : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Contains Sodium Chlorite), 8, II, Marine Pollutant

**Proper Shipping Name (TDG)** : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Contains Sodium Chlorite), 8, II, Marine Pollutant

**Proper Shipping Name (IATA)** : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Contains Sodium Chlorite), 8, II, Marine Pollutant

**Proper Shipping Name (IMDG)** : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Contains Sodium Chlorite), 8, II, Marine Pollutant

**Transport Document Description (DOT)** : UN3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM CHLORITE), 8, II, Marine Pollutant

**Transport Document Description (TDG)** : UN3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM CHLORITE), 8, II, Marine Pollutant

**Transport Document Description (IMDG/IATA)** : UN3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM CHLORITE), 8, II, Marine Pollutant

### Transport Hazard Class(es)

**Department Of Transportation (DOT) Hazard Classes** : 8 - Class 8 - Corrosive material 49 CFR 173.136

**Hazard Labels (DOT)** : 8 - Corrosive



### DOT Symbols

: G - Identifies PSN requiring a technical name

### Packing Group (DOT)

: II - Medium Danger

### DOT Special Provisions (49 CFR 172.102)

: IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard



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(11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).

IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.

IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.

T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

**DOT Packaging Exceptions (49 Cfr 173.xxx)**

: 154

**DOT Packaging Non Bulk (49 Cfr 173.xxx)**

: 212

**DOT Packaging Bulk (49 Cfr 173.xxx)**

: 240

**TDG Primary Hazard Classes**

: 8 - Class 8 - Corrosives

**Hazard Labels (TDG)**

: 8 - Corrosive substances



**Packing Group (TDG)**

: II - Medium Danger

**TDG Special Provisions**

: 16 - 1) The technical name of the most dangerous substance related to the primary class must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(i)(A) of Part 3, Documentation. The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4, Dangerous Goods Safety Marks.  
2) subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical: a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S.; b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S.; c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S.; d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.; or e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act".

**Explosive Limit And Limited Quantity Index**

: 1

**Marine Pollutant**

: P

**Passenger Carrying Road Vehicle Or Passenger**

: 15

**Carrying Railway Vehicle Index**

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**Class (IMDG)** : 8  
**Danger Labels (IMDG)** : 8



**Packing Group (IMDG)** : II  
**Class (IATA)** : 8

**Hazard Labels (IATA)** : 8



**Packing Group (IATA)** : II - Medium Danger  
**Marine Pollutant** : P

### Additional Information

**Limited Quantity** : This product meets the limited quantities exemption as follows: DOT: Not regulated as dangerous goods when shipped in inner packagings equal to or less than 1kg. Otherwise, the above descriptions apply.

**Emergency Response Guide (ERG) Number** : 154

### Transport by sea

**Dot Vessel Stowage Location** : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

**Dot Vessel Stowage Other** : 52 - Stow "separated from" acids

**Limited Quantities (IMDG)** : 1kg

**Special Provisions (IMDG)** : 274

**Excepted Quantities (IMDG)** : E2

**IBC Packing Instructions (IMDG)** : IBC08

**IBC Special Provisions (IMDG)** : B2,B4

**Packing Instructions (IMDG)** : P002

**Tank Instructions (IMDG)** : T3

**Tank Special Provisions (IMDG)** : TP33

**Stowage Category (IMDG)** : B

**EMS-NO. (1)** : F-A

**EMS-NO. (2)** : S-B

**MFAG-NO** : 154

**Marine Pollutant** : P

### Air transport

**DOT Quantity Limitations Passenger Aircraft/Rail (49 CFR 173.27)** : 15 kg

**DOT Quantity Limitations Cargo Aircraft Only (49 CFR 175.75)** : 50 kg

**CAO Packing Instructions (IATA)** : 863

**CAO Max Net Quantity (IATA)** : 50kg

**PCA Packing Instructions (IATA)** : 859

**PCA Limited Quantities (IATA)** : Y844

**PCA Limited Quantity Max Net Quantity (IATA)** : 5kg

**PCA Max Net Quantity (IATA)** : 1kg

**PCA Excepted Quantities (IATA)** : E2

**CAO Max Net Quantity (IATA)** : 50kg

**CAO Packing Instructions (IATA)** : 863

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|  |         |
|--|---------|
| <b>Special Provision (IATA)</b>                        | : A3    |
| <b>Erg Code (IATA)</b>                                 | : 8L    |
| <b>Instruction "cargo" (ICAO)</b>                      | : 864   |
| <b>Instruction "cargo" - Limited Quantities (ICAO)</b> | : 100kg |

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

|  |  |
|--|--|
| <b>Performacide Room Odor Eliminator</b>   |  |
| <b>SARA Section 311/312 Hazard Classes</b> | Delayed (chronic) health hazard<br>Immediate (acute) health hazard |

#### Sodium chlorite (7758-19-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Citric acid (77-92-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

|  |                                 |
|--|---------------------------------|
| <b>SARA Section 311/312 Hazard Classes</b> | Immediate (acute) health hazard |
|--|---------------------------------|

#### Calcium chloride (10043-52-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### US State Regulations

##### Sodium chlorite (7758-19-2)

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2

U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2

RTK - U.S. - Massachusetts - Right To Know List

U.S. - Minnesota - Chemicals of High Concern

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

##### Citric acid (77-92-9)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

##### Calcium chloride (10043-52-4)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

#### Canadian Regulations

##### Performacide Room Odor Eliminator

|                             |   |
|-----------------------------|---|
| <b>WHMIS Classification</b> | Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects<br>Class E - Corrosive Material<br>Class F - Dangerously Reactive Material |
|-----------------------------|---|



##### Sodium chlorite (7758-19-2)

Listed on the Canadian DSL (Domestic Substances List)

Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 1 %

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|                      |  |
|----------------------|--|
| WHMIS Classification | Class C - Oxidizing Material<br>Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects<br>Class E - Corrosive Material |
|----------------------|--|

### Citric acid (77-92-9)

Listed on the Canadian DSL (Domestic Substances List)

Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 1 %

|                      |   |
|----------------------|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|---|

### Calcium chloride (10043-52-4)

Listed on the Canadian DSL (Domestic Substances List)

|                      |   |
|----------------------|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|---|

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, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 07/27/2015

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

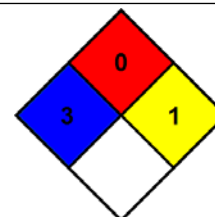
### GHS Full Text Phrases:

|                       |   |
|-----------------------|---|
| Acute Tox. 2 (Dermal) | Acute toxicity (dermal) Category 2                                |
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal) Category 3                                |
| Acute Tox. 3 (Oral)   | Acute toxicity (oral) Category 3                                  |
| Acute Tox. 4 (Oral)   | Acute toxicity (oral) Category 4                                  |
| Aquatic Acute 1       | Hazardous to the aquatic environment - Acute Hazard Category 1    |
| Aquatic Chronic 3     | Hazardous to the aquatic environment - Chronic Hazard Category 3  |
| Combustible Dust      | May form combustible dust concentrations in air                   |
| Eye Dam. 1            | Serious eye damage/eye irritation Category 1                      |
| Eye Irrit. 2A         | Serious eye damage/eye irritation Category 2A                     |
| Ox. Sol. 1            | Oxidizing solids Category 1                                       |
| Skin Corr. 1B         | Skin corrosion/irritation Category 1B                             |
| STOT RE 2             | Specific target organ toxicity (repeated exposure) Category 2     |
| H271                  | May cause fire or explosion; strong oxidizer                      |
| H301                  | Toxic if swallowed  |
| H302                  | Harmful if swallowed  |
| H310                  | Fatal in contact with skin  |
| H311                  | Toxic in contact with skin  |
| H314                  | Causes severe skin burns and eye damage                           |
| H318                  | Causes serious eye damage   |
| H319                  | Causes serious eye irritation                                     |
| H373                  | May cause damage to organs through prolonged or repeated exposure |
| H400                  | Very toxic to aquatic life  |
| H412                  | Harmful to aquatic life with long lasting effects                 |

**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** : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



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### Party Responsible for the Preparation of This Document

OdorStar LLC

Phone Number: (800)327-8583

*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.*

NA GHS SDS