SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Nos Guard SG Mold/Mildew Odor Control - Slow Release

Product Code: 89910, 89911, 89924, 89925, 89950, 89932

Intended Use of the Product

Deodorizer

Name, Address, and Telephone of the Responsible Party

Company

OdorStar, LLC.

4041 SW 47th Avenue

Fort Lauderdale, FL 33314

(954)587-6280

www.odorstar.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

GHS-US/CA Classification

Acute Toxicity (Oral) Category 4 H302
Acute Toxicity (Dermal) Category 3 H311
Acute Toxicity (Inhalation: Dust, Mist) Category 4 H332
Skin Corrosion/Irritation Category 1B H314
Serious Eye Damage/Eye Irritation Category 1 H318
Specific Target Organ Toxicity (Repeated Exposure) Category 2 H373
Combustible Dust

According to test O.1 Test for Oxidizing Solids from the UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, this product did not meet the definition of an oxidizing solid.

Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA)

Signal Word (GHS-US/CA) : Danger

Hazard Statements (GHS-US/CA)

H302+H332 - Harmful if swallowed or if inhaled.
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/CA) : P260 - Do not breathe dust, fume, mist, spray, vapors.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, and eye protection.
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P335 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

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EN (English US)
**Supplemental Information**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Proper grounding procedures to avoid static electricity should be followed. Prevent dust accumulation (to minimize explosion hazard). Avoid generating dust.

**Other Hazards**

Hazardous to the aquatic environment - Acute Hazard Category 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/CA)**

No data available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric acid</td>
<td>(CAS-No.) 77-92-9</td>
<td>66.8</td>
</tr>
<tr>
<td>Sodium chlorite</td>
<td>(CAS-No.) 7758-19-2</td>
<td>16</td>
</tr>
<tr>
<td>Calcium chloride</td>
<td>(CAS-No.) 10043-52-4</td>
<td>13.2</td>
</tr>
</tbody>
</table>

**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. In the event of an emergency or if the pouch is accidently wetted, the composition for the reacted chlorine dioxide is below. Under normal conditions of use this product generates < 100 ppm Chlorine dioxide gas.

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine dioxide</td>
<td>(CAS-No.) 10049-04-4</td>
<td>100</td>
</tr>
</tbody>
</table>

*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:** First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Using proper respiratory protection, move the exposed person to fresh air at once. Encourage exposed person to cough, spit out, and blow nose to remove dust. Immediately call a poison center, physician, or emergency medical service. Immediately call a POISON CENTER or doctor/physician.
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**Skin Contact:** Get immediate medical advice/attention. Remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

**Eye Contact:** Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

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

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

**General:** Harmful if swallowed. Harmful if inhaled. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Corrosive to the respiratory tract. May cause damage to organs (spleen) through prolonged or repeated exposure.

**Inhalation:** Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness. Dust may be harmful or cause irritation. May be corrosive to the respiratory tract.

**Skin Contact:** This material is toxic in small amounts through skin contact, and can cause adverse health effects or death. This material may be absorbed through the skin and eyes. Causes severe irritation which will progress to chemical burns.

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

**Ingestion:** This material is harmful orally and can cause adverse health effects or death in significant amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion 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.

**Chronic Symptoms:** May cause 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. Causes methemoglobinemia – emergency response should treat appropriately, such as by intravenous administration of methylene blue.

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**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

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:** Combustible Dust.

**Explosion Hazard:** Dust explosion hazard in air.

**Reactivity:** Adding an acid to a base or base to an acid may cause a violent reaction. May cause an explosion through a vigorous reaction of polymerization if contaminated with incompatible materials. Violent exothermic reaction and development of heat with reducing materials. Potentially explosive reaction with combustible materials. Sodium chlorite reacts with acids to form spontaneously explosive chlorine dioxide gas (ClO₂). 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. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapors from decomposition. Avoid raising dust.

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. Risk of dust explosion.
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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. Avoid generating dust. Remove ignition sources. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Do not allow contact with incompatible materials (see section 10).

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).


For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. 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.

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. As an immediate precautionary measure, isolate spill or leak area in all directions. Avoid generation of dust during clean-up of spills. Ventilate area.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Cautiously neutralize spilled solid. Use explosion proof vacuum during cleanup, with appropriate filter. Do not mix with other materials. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use only non-sparking tools. 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

Additional Hazards When Processed: May release corrosive vapors. Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Use only outdoors or in a well-ventilated area. Keep away from heat, sparks, open flames, hot surfaces. No smoking. Handle empty containers with care because they may still present a hazard. Use appropriate personal protective equipment (PPE).

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Avoid creating or spreading dust. Use explosion-proof electrical, ventilating, lighting equipment. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container. Store locked up.


Storage Temperature: < 175 °C; Sodium chlorite decomposes at 175°C.

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), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

<table>
<thead>
<tr>
<th>Chlorine dioxide (10049-04-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mexico</td>
</tr>
<tr>
<td>Mexico</td>
</tr>
<tr>
<td>Mexico</td>
</tr>
<tr>
<td>Mexico</td>
</tr>
<tr>
<td>USA ACGIH</td>
</tr>
<tr>
<td>USA ACGIH</td>
</tr>
<tr>
<td>USA OSHA</td>
</tr>
<tr>
<td>USA OSHA</td>
</tr>
<tr>
<td>USA NIOSH</td>
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<tr>
<td>USA NIOSH</td>
</tr>
<tr>
<td>USA NIOSH</td>
</tr>
<tr>
<td>USA NIOSH</td>
</tr>
<tr>
<td>USA IDLH</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. Gas detectors should be used when toxic gases may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. 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. Ensure all national/local regulations are observed.


Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosion-proof clothing.

Hand Protection: Wear protective gloves.

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

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental Exposure Controls: Avoid release to the environment.

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>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>White powder</td>
</tr>
<tr>
<td>Odor</td>
<td>Chlorine</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</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>
</tbody>
</table>

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Section 10: Stability and Reactivity

**Reactivity:** Adding an acid to a base or base to an acid may cause a violent reaction. May cause an explosion through a vigorous reaction of polymerization if contaminated with incompatible materials. Violent exothermic reaction and development of heat with reducing materials. Potentially explosive reaction with combustible materials. Sodium chlorite reacts with acids to form spontaneously explosive chlorine dioxide gas (ClO$_2$). 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:** In large quantities, with excess heat, and with incompatibilities hazardous polymerization may occur.

**Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials. Sparks, heat, open flame and other sources of ignition. Dust accumulation (to minimize explosion hazard). Avoid creating or spreading dust.


**Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicological Information

**Information on Toxicological Effects - Product**

**Acute Toxicity (Oral):** Oral: Harmful if swallowed.

**Acute Toxicity (Dermal):** Dermal: Toxic in contact with skin.

**Acute Toxicity (Inhalation):** Inhalation: Dust, mist: Harmful if inhaled.

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Nos Guard SG Mold/Mildew Odor Control - Slow Release</th>
<th>LD50</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US/CA (oral)</td>
<td>787.72 mg/kg body weight</td>
<td></td>
</tr>
<tr>
<td>ATE US/CA (dermal)</td>
<td>536.00 mg/kg body weight</td>
<td></td>
</tr>
<tr>
<td>ATE US/CA (dust, mist)</td>
<td>1.15 mg/l/4h</td>
<td></td>
</tr>
</tbody>
</table>

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

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

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs (spleen) 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:** Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness. Dust may be harmful or cause irritation. May be corrosive to the respiratory tract.

**Symptoms/Injuries After Skin Contact:** This material is toxic in small amounts through skin contact, and can cause adverse health effects or death. This material may be absorbed through the skin and eyes. Causes severe irritation which will progress to chemical burns.
Symptoms/Injuries After Eye Contact: Causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion 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.
Chronic Symptoms: May cause damage to organs (spleen) through prolonged or repeated exposure.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 Oral Rat</th>
<th>LC50 Inhalation Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chlorite (7758-19-2)</td>
<td>165 mg/kg</td>
<td>230 mg/m³ (Exposure time: 4 h)</td>
</tr>
<tr>
<td>LD50 Dermal Rabbit</td>
<td>107.2 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Calcium chloride (10043-52-4)</td>
<td>2301 (1455 - 2781) mg/kg</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>LD50 Dermal Rate</td>
<td>&gt; 2000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Chlorine dioxide (10049-04-4)</td>
<td>93.86 mg/kg (0.2% gas in water)</td>
<td>32 ppm/4h</td>
</tr>
<tr>
<td>LD50 Oral Rate</td>
<td>5400 mg/kg</td>
<td></td>
</tr>
<tr>
<td>LD50 Dermal Rate</td>
<td>&lt; 2000 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

This section is not required according to the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada’s Hazardous Products Regulations SOR/2015-17. The information commonly reported under other competent authorities in this section may require separate reporting. Contact the manufacturer for more information.

SECTION 13: DISPOSAL CONSIDERATIONS

This section is not required according to the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada’s Hazardous Products Regulations SOR/2015-17. The information commonly reported under other competent authorities in this section may require separate reporting. Contact the manufacturer for more information.

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.

In Accordance with DOT, IMDG, IATA, TDG

Proper Shipping Name: CORROSIVE SOLIDS, TOXIC, N.O.S. (Sodium chlorite)
Hazard Class: 8
Subsidiary Risk(s): 6.1
Identification Number: UN2923
Label Codes: 8, 6.1
Packing Group: II
Marine Pollutant: Marine pollutant
ERG Number (DOT): 154
EmS-No. (Fire) (IMDG): F-A
EmS-No. (Spillage) (IMDG): S-B
MFAG Number (IMDG): 154
ERG Code (IATA): 8P
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SECTION 15: REGULATORY INFORMATION
This section is not required according to the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada’s Hazardous Products Regulations SOR/2015-17. The information commonly reported under other competent authorities in this section may require separate reporting. Contact the manufacturer for more information.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION
Date of Preparation or Latest Revision: 12/07/2017
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) SOR/2015-17.

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 2015 (Can, US, Mex)