

EVOLVE AIR TREATMENT

SECTION 1: PRODUCT & COMPANY INFORMATION

Company: Evolve Pro Solutions, Inc.
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Grapevine, TX 76051

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Product Name: Evolve Air Treatment
Synonym: Chlorine Dioxide Producing Tablet
Product Use: Air deodorizing product which propagates chlorine dioxide when placed in water for the removal of organic odors in limited areas. The tablet size limits the amount and rate of release of the Chlorine Dioxide gas emitted. The information within this document only pertains to the solid tablet and the hazardous substances enveloped in the packaging under normal conditions of use and possible emergencies

Issue Date: 6.1.2021
Version: 1.0
Emergency Phone: +1-800-255-3924

CAS Number: MIXTURE
Chemical Family: Cleaner
Chemical Formula: ***PROPRIETARY***

SECTION 2: HAZARDS IDENTIFICATION

General: Contains small amounts of chemicals that are hazardous to health and the environment, but in quantities too small to constitute any practical risks to health or the environment.

GHS Classification: Oxidizing Solids: 2
Acute Toxicity (Oral): 3
Acute Toxicity (Dermal): 2
Acute Toxicity (Inhalation, Dust, Mist): 2
Skin Corrosion: 1B
Eye Damage: 1
Skin Sensitivity: 1
Specific Target Organ Toxicity (STOT), Single Exposure: Not Classified

GHS Hazard Pictograms:



Signal Word: Danger

Hazard Statements: H217: May intensify fire, oxidizer
H302: Harmful if swallowed
H314: Causes severe skin burns and eye damage
H317: May cause allergic skin reaction
H318: Causes serious eye damage
H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements: P102: Keep out of reach of children
P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P264: Wash hands 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.
P301+P312: IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.
P301+P330+P331: IF SWALLOWED: Rinse mouth. No NOT induce vomiting.
P302+P352: If on skin, wash with plenty of water.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313+P332: If rash occurs, seek medical attention.
P321: Specific treatment (see Section 4 on this SDS).
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

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P370+P378: In case of fire: Use appropriate media (see Section 5 on this SDS) to extinguish.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P420: Store away from other materials.

P501: Dispose of contents/container in accordance with local, regional, state, national, and international regulations.

Other Hazards: This product releases chlorine dioxide gas when in contact with air or moisture and will generate a chlorine dioxide solution when placed in a specified amount of water. The product size limits both the amount of gas generated and the rate of release. The product needs to be used in a well-ventilated area, preferably outdoors and not in direct sunlight.

SECTION 3: INGREDIENT INFORMATION

CAS Number: Not applicable since the product is a preparation.

Composition/Information on Ingredients:

| Ingredient | CAS # | Weight Percent (%) |
|-----------------|-----------|--------------------|
| Sodium Chlorite | 7758-19-2 | 10-26% |

SECTION 4: FIRST AID MEASURES

General: If feeling unwell, seek medical advice.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical aid.

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

Skin: Flush skin with plenty of soap and water for a few minutes. Remove and wash contaminated clothing before reuse.

Eyes: Immediately and cautiously rinse with water for at least 15 minutes while holding eyelids wide open. Remove contact lenses if possible. Get immediate medical advice or attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media: Use extinguishing media appropriate for surrounding area.

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

Special Fire Hazard: May cause fire or explosion; strong oxidizer.

Special Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire, and increasing risk of burns and injuries. Chlorine gas evaporated from solutions may explode at concentrations of 10% by volume. Do not allow chlorine dioxide gas to accumulate within a confined space.

Special Reactivity Hazard: Sodium Chlorite is self-reactive. The trihydrate crystals of sodium chlorite explode on percussion. Sodium chlorite reacts with acids to form spontaneously explosive chlorine gas (ClO₂). Thermal decomposition generates corrosive vapors.

Advice for Firefighters - Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present. Open/vent containers. Do not allow solutions to evaporate to dryness. Vent to atmosphere.

Firefighting Instructions: Keep upwind. Use water spray or fog for cooling exposed containers.

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

Hazardous Combustion Products: Corrosive vapors. Acrid smoke and irritating fumes.

Other Information: Do not allow run-off from firefighting to enter drains or water sources.

Reference to Other Sections: Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precaution - General Measures: Wear protective clothing and respiratory equipment. Avoid dust formation.

For Non-Emergency Personnel - Protective Equipment: Use appropriate personal protective equipment (PPE).

For Non-Emergency Personnel - Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel - Protective Equipment: Equip cleanup crew with proper protection.

For Emergency Personnel - 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.

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

Method for Containment and Cleaning Up: Contain Spillage. Scoop up or vacuum into a container for reclamation or disposal. Avoid dusting. Soak up spill matter using an absorbent flush residual material and down drain with an excess of water, in accordance with local regulations. If a solution

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of the product is spilled, take up as much as possible and place in a suitable container for disposal in compliance with local regulations.

Reference to Other Sections: See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING & STORAGE

General Advice: Avoid contact with heat, sparks, open flame, and static discharge. Avoid direct sunlight, keep containers closed, and store in a cool, dry location away from incompatible materials. Keep away from metal, metal salt bases, reducing agents, and combustible materials. Avoid contact with water and water vapor prior to use.

Usage Precautions: Follow normal good-housekeeping practices. Keep away from direct flames.

Handling Precautions: Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking, and when leaving work. Handle empty containers with care because they may still present a hazard. Avoid generating or breathing dust. Avoid contact with eyes and clothing. Contaminated clothing should be washed before reuse. Use with adequate ventilation. Provide an eyewash station close to where the material is being used.

Storage Precautions: Store locked up. Keep original container closed when not in use. Store in cool, dry conditions in original containers. Store away from direct sunlight, extremely high or low temperatures. Keep away from heat, sparks, open flames, hot surfaces, metal, metal salt bases, reducing agents, combustible and incompatible materials. Protect from moisture.

Incompatible Materials: Strong acids, alkalis, reducing agents, combustible materials, organic solvents, and moisture.

SECTION 8: EXPOSURE CONTROL & PERSONAL PROTECTION

Hygiene Measures: Wash hands immediately after handling the product. Avoid contact with skin, eyes, and clothing. Remove and wash contaminated clothing before re-use. Avoid generating dust. Do not smoke.

Materials for Protective Clothing: Gloves, protective clothing, protective eyewear. When insufficient ventilation is present, wear respiratory protection, none required under normal usage.

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

Hand Protection: Wear protective gloves.

Skin Protection: Although unexpected, avoid prolonged skin contact. Use chemically-resistant gloves as needed.

Eye Protection: Chemical safety goggles, safety glasses with side shields.

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 & CHEMICAL PROPERTIES

| | |
|-----------------------------------|--|
| Physical State: | Solid |
| Appearance: | White Tablet |
| Odor: | Slight Chlorine Odor |
| Odor Threshold: | Not Available |
| pH: | In tablet form: pH is 7-8. At 25°C/77°F, 1% suspension in water: pH of 2.3 |
| Evaporation Rate: | Not Applicable |
| Melting Point: | Not Applicable |
| Boiling Point: | Not Applicable |
| Flash Point: | Not Applicable |
| Auto-ignition Temperature: | Not Applicable |
| Decomposition Temperature: | 48.89-100°C/120-212°F |
| Flammability (Solid/Gas): | Not Flammable |
| Lower Flammable Limit: | Not Applicable |
| Upper Flammable Limit: | Not Applicable |
| Vapor Pressure: | Negligible |
| Relative Vapor Density: | Not Applicable |
| Bulk Density: | 2.3g/cc |
| Solubility in Water: | Reacts with water |

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SECTION 10: STABILITY & REACTIVITY

Reactivity: Sodium chlorite is self-reactive. The trihydrate crystals of sodium chlorate explode on percussion. Sodium chlorite reacts with acids to form spontaneously explosive chlorine dioxide gas (ClO₂). If heated above 175°C/347°F, 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: May cause fire or explosion; strong oxidizer.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to avoid: Direct sunlight, extremely low or high temperatures, ignition sources, combustible materials, incompatible materials, sparks, heat, open flame and other sources of ignition.

Incompatible Materials: Strong acids, alkalis, reducing agents, combustible materials, organic solvents, and moisture.

Hazardous Decomposition Products: None under normal storage conditions

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity (Oral): Harmful if swallowed.

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

Acute Toxicity (Inhalation): Inhalation: Dust and mist. Toxic if inhaled.

Acute Effects: Ingredients include a small quantity of volatile fragrance chemicals which may contain small amounts of substances that are harmful and/or irritating to the eyes and skin.

Skin Corrosion: Causes severe skin burns.

Eye Damage/Irritation: Causes serious eye damage.

pH: In tablet form pH is 7-8. At 25°C/77°F, 1% suspension in water: pH of 2.3.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: 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: Inhalation of this material can cause serious health effects in small amounts, leading to unconsciousness and death. May be corrosive to the respiratory tract. Dust may be harmful or cause irritation.

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. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: 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.

Chronic Symptoms: May cause damage to organs through prolonged or repeated exposure.

SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate: Chlorine and chlorine dioxide (ClO₂) are broken down quickly to chlorine ions in the environment.

Mobility: This product is reactive with water, releasing sodium, magnesium chloride sulfate and hydrogen ions.

Eco Toxicological Information: Breaks down quickly in the environment but can be toxic to aquatic microorganisms and invertebrates. May cause long-term adverse effects to these organisms.

Component Ecotoxicity (Sodium Chlorite): Daphnia magna, 48hour TL50:0.29mg/1 (No Effect Level 0.10mg/1). Mallard duck, dietary LC50:10000ppm.

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US EPA Waste Number: D003

Disposal of Waste Method: National and local disposal laws and regulation will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. All waste material should be reviewed to determine the applicable hazard.

SECTION 14: TRANSPORT & SHIPPING INFORMATION

Land Transport (ADR/RID):

Proper Shipping Name: Sodium Chlorite

Hazard Class: 5.1

UN No.: UN1496

Packing Group: II

Sea Transport (IMO/IMDG):

Proper Shipping Name: Sodium Chlorite

Hazard Class: 5.1

UN No.: UN1496

Packing Group: II

Air Transport (ICAO/IA/TA):

Proper Shipping Name: Sodium Chlorite

Hazard Class: 5.1

UN No.: UN1496

Packing Group: II

*Store in a cool and dry place. Keep away from direct light and protect against fire.

SECTION 15: REGULATORY INFORMATION

Regulatory information: Classified as hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC).

Poisons Schedule: Not scheduled

Hazard Category: Irritant

SECTION 16: OTHER INFORMATION

Disclaimer: The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that Evolve Pro Solutions, Inc. believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of Evolve Pro Solutions, Inc.'s control, Evolve Pro Solutions, Inc. makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.