



# Safety Data Sheet

Issue Date: 13-Dec-2016

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Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** 90961 DeOdorPRO Fast Gas Release

### Other means of identification

**SDS #** CDS-001

### **Product Code**

Cab & Sleeper, Trailer & Container, Recreational Vehicle, Marine, Automotive, Home & Basement, Hotel/Motel, Cabin & Tent, Multipurpose, Pro Series,

### **UN/ID No**

UN1496

### Recommended use of the chemical and restrictions on use

**Recommended Use** Elimination of odors.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

CLO2 Delivery Systems  
3247 Pearl Road  
Medina, OH 44256

### Emergency Telephone Number

**Company Phone Number** 330.635.7539 (9:00 AM – 4:00 PM EST)  
**Emergency Telephone (24 hr)** INFOTRAC 1.352.323-3500 (International)  
1.800.535.5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** White powdery substance

**Physical state** Solid

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Serious eye damage/eye irritation	Category 2
Oxidizing Solids	Category 2

### Signal Word

**Danger**

**Hazard statements**

Harmful if swallowed  
 Toxic in contact with skin  
 Causes serious eye irritation  
 May intensify fire; oxidizer



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing  
 Wear respiratory protection  
 Keep away from heat  
 Keep/Store away from clothing/ combustible materials  
 Take any precaution to avoid mixing with combustibles  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF ON SKIN: Wash with plenty of water and soap  
 Call a POISON CENTER or doctor if you feel unwell  
 Take off immediately all contaminated clothing and wash it before reuse  
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
 Rinse mouth  
 In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight-%
Citric Acid	79-92-9	60-80
Sodium Chlorite	7758-19-2	20-40

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. \*\*

**4. FIRST AID MEASURES**

**First Aid Measures**

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

<b>Skin Contact</b>	IF ON SKIN: Wash with plenty of soap and water. Call a poison center or doctor/physician if you feel unwell. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
<b>Inhalation</b>	Remove to fresh air. If individual is not breathing, administer CPR. If breathing is labored, seek medical attention.
<b>Ingestion</b>	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Most important symptoms and effects**

**Symptoms** Harmful if swallowed. Toxic in contact with skin. Causes serious eye irritation.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Fire-exposed containers should be watered and cooled with water fog. Decomposition can release oxygen that supports combustion and reduces effectiveness of suffocation-type extinguishing agents.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Sodium chlorite in the unactivated product is a strong oxidizer, and can support combustion in the absence of air. Chlorine dioxide, which may evolve from exposure of the unactivated product to water, is explosive in the gas phase at concentrations greater than 10% by volume. Do not allow chlorine dioxide gas to accumulate in confined spaces.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up**

DRY/UNACTIVATED PRODUCT: Place contents on pouch in a plastic container. Fill container with water to allow degradation/neutralization.

ACTIVATED PRODUCT: If spillage is heavily concentrated, dilute. Soak up spillage and dispose of according to local ordinance.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing and eye/face protection. Wear respiratory protection. Keep away from heat. Keep/Store away from clothing/./?/combustible materials. Take any precaution to avoid mixing with combustibles.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Observe all applicable regulations when storing this substance. Keep unactivated product in a cool, dry, ventilated area away from direct sunlight. Do not store with acids, chlorine and chlorine compounds, hypochlorites (bleach), organic solvents, sulfur and sulfite compounds, phosphorus, and combustible/flammable materials. Do not store in areas where sparking may occur.

#### **Packaging Materials**

After envelope is spent, liquid product should be disposed of down designated disposal sink and flushed thoroughly with water. Throw away envelope. Ensure the micro-reactor used for air treatment or odor elimination is spent before discarding; see product label for total time to be emerged in water prior to discarding.

#### **Incompatible Materials**

Avoid accidental contact of dry ingredients or activated product with acids, chlorine compounds, hypochlorites (bleach), sulfur and sulfite compounds, phosphorus, organic solvents, and combustible/flammable materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

### Appropriate engineering controls

#### **Engineering Controls**

General exhaust ventilation is sufficient for safe use of this product. Avoid breathing any vapors, mists or fumes generated by the inactivated and activated product. Safety shower and chemical eyewash facilities may be necessary if handling large quantities of dry ingredients.

### Individual protection measures, such as personal protective equipment

#### **Eye/Face Protection**

Whether handling dry ingredients or activated product, approved safety goggles or face shield should be worn.

#### **Skin and Body Protection**

If handling dry ingredients in product, use appropriate hand protection. Gloves made of rubber, neoprene or other chemically impervious gloves may be suitable. Consult glove manufacturer.

#### **Respiratory Protection**

Where overexposure to chlorine dioxide may occur, use appropriate respiratory protection and follow OSHA requirements at 29 CFR 1910.134 and 29 CFR 1910.1000. A NIOSH-approved air-purifying respirator or a NIOSH approved canister/cartridge respirator rated for chlorine/acid gas or specified for chlorine dioxide may be appropriate.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid	<b>Odor</b>	Not determined
<b>Appearance</b>	White powdery substance	<b>Odor Threshold</b>	0.1 ppm
<b>Color</b>	White		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	Not determined	
<b>Melting Point/Freezing Point</b>	Not determined	
<b>Boiling Point/Boiling Range</b>	Not determined	
<b>Flash Point</b>	185° C / 365° F	
<b>Evaporation Rate</b>	Not determined	
<b>Flammability (Solid, Gas)</b>	Not determined	
<b>Flammability Limits in Air</b>		
<b>Upper Flammability Limits</b>	Not determined	
<b>Lower Flammability Limit</b>	Not determined	
<b>Vapor Pressure</b>	Not determined	
<b>Vapor Density</b>	Not determined	
<b>Relative Density</b>	Not determined	
<b>Water Solubility</b>	Completely soluble	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	
<b>Auto-ignition Temperature</b>	Not determined	
<b>Decomposition Temperature</b>	160° C / 320° F	
<b>Kinematic Viscosity</b>	Not determined	
<b>Dynamic Viscosity</b>	Not determined	
<b>Explosive Properties</b>	Not determined	
<b>Oxidizing Properties</b>	May intensify fire; oxidizer	

### Other Information

Activated product is a light green to yellow liquid with a faint chlorine smell

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions. Ingredients are oxidizers and may decompose if heated above 160°C, opened, or wetted.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to Avoid

Avoid storing product where it might become wet, or where the spilled contents of a damaged, unactivated pouch could dry to a crystalline salt or produce chlorine dioxide gas. Do not store where dry material may come into contact with sparking.

### Incompatible Materials

Avoid accidental contact of dry ingredients or activated product with acids, chlorine compounds, hypochlorites (bleach), sulfur and sulfite compounds, phosphorus, organic solvents, and combustible/flammable materials.

### Hazardous Decomposition Products

Decomposition can release oxygen that supports combustion and reduces effectiveness of suffocation-type extinguishing agents. Thermal decomposition products from incomplete combustion (pyrolysis) include carbon monoxide, carbon dioxide, and inorganic chlorine compounds.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information**

**Eye Contact** Causes serious eye irritation.  
**Skin Contact** Toxic in contact with skin.  
**Inhalation** Do not inhale.  
**Ingestion** Harmful if swallowed.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Chlorite 7758-19-2	= 165 mg/kg ( Rat )	= 107.2 mg/kg ( Rabbit )	= 230 mg/m <sup>3</sup> ( Rat ) 4 h

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Chlorite 7758-19-2		Group 3		

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 487.00 mg/kg  
**ATEmix (dermal)** 357.30 mg/kg

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Chlorite 7758-19-2		100 - 500: 96 h Brachydanio rerio mg/L LC50 static 100: 96 h Lepomis macrochirus mg/L LC50 static 100: 96 h Oncorhynchus mykiss mg/L LC50 static	0.026: 48 h Daphnia magna mg/L EC50 0.25 - 0.33: 48 h Daphnia magna mg/L EC50 Flowthrough 0.012 - 0.018: 48 h Daphnia magna mg/L EC50 Static

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

- Disposal of Wastes**                      Unactivated product should be disposed in accordance with all federal, state and local regulations. Used/activated product sachets are considered inert; consult with appropriate agencies to determine appropriate disposal methods.
  
- Contaminated Packaging**              Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Sodium Chlorite 7758-19-2	Toxic Ignitable

**14. TRANSPORT INFORMATION**

**Note**    Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

- UN/ID No**                                      UN1496
- Proper Shipping Name**                  Sodium chlorite
- Hazard Class**                                5.1
- Packing Group**                              II

**IATA**

- UN/ID No**                                      UN1496
- Proper Shipping Name**                  Sodium chlorite
- Hazard Class**                                5.1
- Packing Group**                              II

**IMDG**

- UN/ID No**                                      UN1496
- Proper Shipping Name**                  Sodium chlorite
- Hazard Class**                                5.1
- Packing Group**                              II

**15. REGULATORY INFORMATION**

**International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium Chlorite	X	X	X	Present	X	Present	X	X

**Legend:**

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*
- AICS - Australian Inventory of Chemical Substances*

**US Federal Regulations**

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Chlorite 7758-19-2	X	X	X

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazard</b> Not determined	<b>Flammability</b> Not determined	<b>Instability</b> Not determined	<b>Special Hazards</b> Not determined
<b><u>HMIS</u></b>	<b>Health Hazard</b> Not determined	<b>Flammability</b> Not determined	<b>Physical hazards</b> Not determined	<b>Personal Protection</b> Not determined

**Issue Date:** 13-Dec-2016  
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**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**