



# WORKING SOLUTION SAFETY DATA SHEET

Issue Date: 10/18/2011

## Section 1 Product and Company Information

**Product Name** Air Quality Manager - AQM and Mold Odor Mildew Smoke - MOMS  
**Product Use** Chlorine dioxide solution for use as a cleaner and deodorizer  
**Company** OdorXit  
**Address** 3729 Riva Ridge Drive Hamilton, OH 45011  
**Technical Phone** (513) 895-1000 **Emergency Phone** (513)-266-4008  
**Fax** (513)868-8886

## Section 2 Composition

### Hazardous Component

Chemical Name	CAS Number	% (weight/weight)	Chemical Symbol
Chlorine dioxide	10049-04-4	Varies with use, 0.06 max.	ClO <sub>2</sub>

## Section 3 Hazards Identification

### Emergency Overview

This product is a chlorine dioxide generator. The intact product is not expected to produce any measurable exposure to ingredients. If the product is damaged, avoid contact with dry ingredients; they may cause irritation or burns in direct contact with skin or eyes. The Material Safety Data Sheet for dry ingredients follows this Working Solution Safety Data Sheet.

The quantity of active ingredient is less than or equal to 0.5 grams. Chlorine dioxide gas is not expected to be released in amounts or at a rate at which significant exposure could occur with normal handling and use. If not used according to directions, it is possible that some chlorine dioxide gas could be released into small, enclosed spaces in sufficient quantities to be detectable. If this occurs and a chlorine-like odor is detected in such a space, ventilate and leave the space.

- Eye:** Direct contact with this working solution may cause irritation and possibly burns with symptoms of redness, tearing, and eye damage due to burns.
- Skin:** Direct contact with this working solution may cause irritation and/or burns with symptoms of itching, redness, swelling and possible skin damage.
- Ingestion:** Swallowing this working solution may cause symptoms of nausea or vomiting. Do not induce vomiting. For solutions 3-10 times and above more concentrated than this working solution, ingestion may be harmful and lead to nausea, vomiting, lethargy, diarrhea, bleeding or ulceration.
- Inhalation:** Avoid direct inhalation of solution. Chlorine dioxide gas can volatilize, causing some gas to enter the air surrounding the solution. At high concentrations of chlorine dioxide gas in air, respiratory irritation can occur. High exposure may cause bronchospasm and pulmonary edema, which may be delayed in onset. May also cause headache.

## Section 4 First Aid Measures

- Eye:** If solution comes in contact with eyes, rinse immediately with water.
- Skin:** If solution comes in contact with skin, rinse affected area immediately with water.
- Ingestion:** Do not induce vomiting. Give water to drink. Seek medical advice where necessary. Do not give anything by mouth if person is unconscious or having seizures.
- Inhalation:** Avoid direct inhalation of solution. If symptoms occur, remove to fresh air. If irritation or discomfort persists, administer oxygen and seek medical attention.

## Section 5 Fire Fighting Measures

<b>Flash Point</b>	<b>Autoignition Temperature</b>
Not Applicable	Not Applicable

### Flammable Limits in Air (percent by volume)

Not Applicable

### Extinguishing Media

OdorXit

Safety Data Sheet: AQM/MOMS Working Solution + Dry Chemical

1 of 8

Not Applicable- Choose extinguishing media suitable for surrounding materials

### Fire Fighting Techniques and Comments

Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Use flooding quantities of water as fog or spray. Use water spray to keep fire-exposed containers cool. Extinguish fire using agent suitable for surrounding fire. Wear self-contained breathing apparatus and protective clothing when fighting fires involving chemicals.

### Section 6 Accidental Release Measures

**Environmental Precautions:** Environmental precautions required; however, chlorine dioxide degrades into salts in the environment.

**Methods for Cleaning Up:** Flush to drain with water or soak up onto inert material and dispose of into bag. Hold bag for waste pickup.

### Section 7 Handling and Storage

**Handling:** Wear appropriate gloves with this material. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use safe handling in accordance with label instructions. Do not mix with other chemicals. Keep solution away from children.

**Storage:** During use, keep solution out of direct sunlight. After use, dispose of chlorine dioxide solution by flushing to drain. See following MSDS of sodium chlorite for handling and storage of inactivated product.

### Section 8 Exposure Control / Personal Protection

**Eye Protection:** Avoid contact with eyes.

**Skin Protection:** Wear gloves. Avoid contact with skin.

**Respiratory:** Low risk when handling product as directed. Avoid direct inhalation of solution. Where overexposure to chlorine dioxide might occur, use appropriate respiratory protection and follow OSHA requirements as specified by 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 in situations of overexposure.

**General:** When using over prolonged periods of time, provide ventilation to control worker exposure and prevent health risk. Provide an eyewash fountain and safety shower in close proximity to points of potential exposure.

### Section 9 Physical and Chemical Properties

**Appearance:** Liquid. Light yellow color.

**Evaporation rate:** As water

**Solubility in water:** Complete

**pH @ 25°C:** 6-7

**Specific Gravity:** 1.005 at 20°C

**Odor:** Slight chlorine odor

**Boiling point:** As water

**Freezing point:** As water

**Vapor Pressure:** No data

**Volatile (% by volume):** No data

## Section 10 Stability and Reactivity

<b>Chemical Stability:</b>	Stable
<b>Conditions to Avoid:</b>	For solution, avoid temperatures above 140 °F (60 °C). Avoid direct contact with sunlight.
<b>Incompatibility:</b>	Solution not intended to be mixed with other chemicals.
<b>Decomposition Products:</b>	Decomposes to simple salt solution after prolonged storage and/or in the presence of reducing agent
<b>Hazardous Polymerization:</b>	Will not occur.

## Section 11 Toxicology Information

<b>LD<sub>50</sub> (oral, rat):</b>	278 mg/kg
<b>ACGIH (ClO<sub>2</sub> gas):</b>	0.1 ppm (TWA), 0.3 (STEL)
<b>Sensitization (guinea pig):</b>	Negative
<b>Carcinogenicity:</b>	Group D carcinogen (not classifiable as a human carcinogen).
<b>Mutagenicity:</b>	No human data available.
<b>Reproductive Toxicity:</b>	No effects were observed at 10 ppm or higher concentration of sodium chlorite in the drinking water in animal testing.

## Section 12 Ecological Information

<b>Ecotoxicological Information:</b>	No data available
<b>Persistence and Degredation:</b>	No data available. No expected persistence.

## Section 13 Disposal Considerations

Solution to be disposed of in accordance with spillage instructions as explained in accidental release measures. Used/activated pouches are considered inert and may be disposed of as normal waste in accordance with local authority regulations.

## Section 14 Transport Information

<b>Shipping Information:</b>	Chlorine dioxide may not be shipped as gas or as a solution. For shipment of product in inactivated form, see MSDS for sodium chlorite.
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## Section 15 Regulatory Information

### TOXIC SUBSTANCES CONTROL ACT

The components of this product are listed on the Toxic Substance Control Act (TSCA) inventory

### US FEDERAL REGULATIONS:

<b>Clean Air Act:</b>	Not applicable
<b>CERCLA SECTION 103 (40 CFR § 302.4):</b>	Not applicable.
<b>SARA SECTION 302 (40 CFR § 355.30):</b>	Not applicable.
<b>SARA SECTION 304 (40 CFR § 355.40):</b>	Not applicable.
<b>SARA (EPCRA) SECTION 313 (40 CFR § 372.65):</b>	Chlorine dioxide produced from activated product is listed under SARA 313 with a 24,000-poucnd threshold for manufactured product.
<b>OSHA PROCESS SAFETY (29 CFR § 1910.119):</b>	Not regulated.
<b>SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40 CFR § 370.21):</b>	10,000 lb threshold.
<b>ACUTE HAZARD:</b>	Irritant.
<b>CHRONIC HAZARD:</b>	None known.
<b>FIRE HAZARD:</b>	Oxidizer.
<b>REACTIVITY HAZARD:</b>	Oxidizer.
<b>SUDDEN RELEASE HAZARD:</b>	Not applicable.

**STATE REPORTING REQUIREMENTS:**

California Proposition 65: Not regulated.

New Jersey: See Section II.

**EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW (40 CFR 355, APP.A)**

**EXTREMELY HAZARDOUS SUBSTANCE (EHS) - PLANNING QUANTITY**

None Established

**SUPPLIER NOTIFICATION REQUIREMENTS, PER 40 CFR 372.45**

None Required

FOR ADDITIONAL INFORMATION CALL: 614-340-1862 (During business hours, Eastern Standard Time)

NOTICE: All information appearing herein is based upon data obtained from the manufacturer and its distributors. While the information is believed to be accurate, Listening Systems, Inc./dba OdorXit Products makes no representations as to its accuracy or sufficiency; conditions of use are beyond Listening Systems, Inc./dba OdorXit Products control and therefore users are responsible to verify this information under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.



**Section 1 Product and Company Information**

**Product Name** Air Quality Manager – AQM / Mold Odor Mildew Smoke - MOMS  
**Product Use** Delivery system (pouch) for the generation of chlorine dioxide for use as a cleaner and deodorizer  
**Company** OdorXit Products  
**Address** 63729 Riva Ridge Drive Hamilton, OH 45011  
**Technical Phone** (513) 895-1000 **Emergency Phone** (513) 266-4008  
**Fax** (513) 868-8886

**Section 2 Composition / Information on Ingredients**

**Hazardous Component**

Chemical Name	CAS Number	% (by weight)	Exposure Standards
Sodium Chlorite	7758-19-2	36-37	None Established
Sodium Chlorate	7777-09-9	1.8 max	None Established
Sodium Hydroxide	1310-73-2	1.4 max	OSHA: 2 mg/m <sup>3</sup>
Sodium Persulfate	775-27-1	54-55	None established

**Section 3 Hazards Identification**

**Emergency Overview**

White crystals/powder, slight chlorine odor, strong oxidizer. May cause irritation or burns to skin, eyes, and respiratory track.

**Potential Health Effects**

**Eye:** Direct contact with this product intact should cause no harm. Should the product be damaged and the contents spill out, direct contact with the active materials may cause severe irritation and possibly burns with symptoms of redness, tearing, and eye damage.

**Skin:** Direct contact with this product intact should cause no harm. Should the product be damaged and the contents spill out, direct skin contact with the active materials may cause irritation and/or burns with symptoms of itching, redness, swelling and possible skin damage.

**Ingestion:** Swallowing the active material contents of this product may be extremely harmful with symptoms of nausea, vomiting, lethargy, diarrhea, bleeding or ulceration. May cause anemia due to the oxidizing effects of sodium chlorite.

**Inhalation:** Should the product be damaged and the contents spill out, inhaling the active material contents of this product may cause irritation of the mucous membranes and respiratory tract with symptoms of sneezing, coughing and bloody nose. Severe overexposure to the active material contents inside this product may cause lung damage.

**Section 4 First Aid Measures**

**Eye:** Immediately flush eyes with water for at least 15 minutes, lifting eyelids to thoroughly flush. If redness or irritation persists, get prompt medical attention.

**Skin:** Remove contaminated clothing and flush affected skin area with water for at least 15 minutes. Seek medical attention if burning or irritation of the skin persists. Launder clothing before reuse.

**Ingestion:** Drink large quantities of water and seek medical attention immediately. DO NOT induce vomiting. DO NOT give anything by mouth if the person is unconscious or having seizures.

**Inhalation:** Remove to fresh air. If irritation or discomfort persists, administer oxygen and seek medical attention immediately.

**Notes to Physician**

Chlorine dioxide vapors are emitted when this product contacts water, acids or chlorine. If these vapors are inhaled in large quantities, monitor patient closely for delayed development of pulmonary edema which may occur up to 48-72 hours post-inhalation. For further information on first aid measures for the product in solution, please see the Working Solution Safety Data Sheet.

## Section 5 Fire Fighting Measures

<b>Flash Point:</b>	Not Applicable
<b>Autoignition Temperature:</b>	Not Applicable
<b>Flammable Limits in Air : (% by volume)</b>	Not Applicable
<b>Extinguishing Media: Deluge with water.</b>	Do NOT use carbon dioxide or other gas filled fire extinguishers. They will have NO effect decomposing material. Choose extinguishing media suitable for surrounding materials
<b>Unusual Fire Explosion Hazard:</b>	Decomposes when heated with liberation of oxygen which may intensify fire. Presence of moisture accelerates decomposition.
<b>Fire Fighting Techniques and Comments:</b>	
Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Use flooding quantities of water as fog or spray. Use water spray to keep fire-exposed containers cool. Extinguish fire using agent suitable for surrounding fire. Wear self-contained breathing apparatus and protective clothing when fighting fires involving chemicals.	

## Section 6 Accidental Release Measures

### Methods for Cleaning Up Spill

Clean up all spills immediately, observing all protection and safety precautions. Small spills of either dry or activated product may be flushed with large quantities of water to a designated sewer system. Larger spills should be contained and neutralized by adding sufficient water to produce a dilute solution and flushed to a designated sewer system in compliance with all federal, state, and local regulations, or should be disposed of as chemical waste in accordance with all applicable regulations. The spill scene should be ventilated and flushed thoroughly with water after cleanup.

## Section 7 Handling and Storage

<b>Handling:</b>	Wear rubber gloves when handling. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
<b>Storage:</b>	Store in a cool, dry place and ensure that there is adequate ventilation. Do not expose to direct light. Do not expose to moisture during storage. This product should only be removed from the metalized/foil pouch immediately prior to use.

## Section 8 Exposure Control / Personal Protection

<b>Engineering Control:</b>	General exhaust ventilation is sufficient for safe use of this product. Avoid breathing any vapors, mists, or fumes generated by the activated product. Local exhaust ventilation may be appropriate in applications in confined spaces or where large quantities of the products are used.
<b>Eye Protection:</b>	Avoid contact with eyes. Wear protective goggles.
<b>Skin Protection:</b>	None normally required when handling intact product. If handling dry ingredients in product, and when handling generated chlorine dioxide solution, use chemical resistant gloves.
<b>Respiratory:</b>	None normally required when handling intact product. Should product spill, use NIOSH/MSHA approved respirators.
<b>General:</b>	Provide ventilation to control worker exposure and prevent health risk. Provide an eyewash fountain and safety shower in close proximity to points of potential exposure.

## Section 9 Physical and Chemical Properties

<b>Appearance and Odor:</b>	White powder	<b>Odor:</b>	Slight chlorine odor
<b>Melting Point:</b>	338°F (170°C)	<b>Decomposition Temperature:</b>	> 338 °F (170 °C)
<b>Solubility in water:</b>	Complete	<b>Bulk Density:</b>	No data
<b>pH @ 25°C:</b>	Contain both neutral	<b>Vapor Pressure:</b>	No data



DOT Shipping Description (49 CFR 172.101)

Sodium Chlorite, 5.1, UN 1496, II

The applicable packaging section is 49 CFR 173.4 (small quantity - maximum amount of sodium chlorite per individual receptacle is 30 grams). Oxidizer placard not required. Outside package must be marked as follows: "This package conforms to 49 CFR 173.4."

### Section 15 Regulatory Information

#### **TOXIC SUBSTANCES CONTROL ACT**

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE Toxic Substance Control Act (TSCA) Inventory

#### **SUPERFUND AMMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III HAZARD CATEGORIES (40 CFR 370.2)**

HEALTH: Immediate (Acute), Delayed (Chronic) PHYSICAL: Fire

#### **EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW (40 CFR 355, APP.A)**

#### **EXTREMELY HAZARDOUS SUBSTANCE (EHS) - PLANNING QUANTITY**

None Established

#### **SUPPLIER NOTIFICATION REQUIREMENTS, PER 40 CFR 372.45**

None Required

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