

### 1. Product and Company Identification

**Product Code:** 380012  
**Product Name:** MaxKlor  
**Company Name:** Preserve International  
PO Box 17003  
Reno, NV 89511  
**Phone Number:** (209)664-1607  
**Web site address:** www.preserveinternational.com  
**Emergency Contact:** ChemTEL (800)255-3924  
**Information:** (209)664-1607

### 2. Hazards Identification

**Skin Corrosion/Irritation, Category 1C**

**Specific Target Organ Toxicity (single exposure), Category 3**

**Acute Toxicity: Oral, Category 4**



Danger



Warning

**GHS Hazard Phrases:**

Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause respiratory irritation.

**GHS Precaution Phrases:**

P262 - Do not get in eyes, on skin, or on clothing.  
P264 - Wash skin thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:**

P301+P330+P331+P310 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician.  
P304+341+P312 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+P351+P338+P311 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician.  
P321 - Specific treatment (see supplementary first aid instructions on this label).  
P391 - Collect spillage. Hazardous to the aquatic environment.

**GHS Storage and Disposal Phrases:**

P403+235 - Store in a well ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to an approved waste disposal plant.



# SAFETY DATA SHEET

## MaxKlor

### Potential Health Effects (Acute and Chronic):

## 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
10049-04-4	Stabilized chlorine dioxide	5.0 %	

## 4. First Aid Measures

### Emergency and First Aid Procedures:

<b>In Case of Inhalation:</b>	Supply fresh air; consult a doctor in case of complaints.
<b>In Case of Skin Contact:</b>	Immediately rinse with water. If irritation continues, consult a doctor. Seek immediate medical help for blistering and open wounds.
<b>In Case of Eye Contact:</b>	Remove contacts lenses if worn, if possible. Rinse opened eye(s) for several minutes with running water. Then consult a doctor.
<b>In Case of Ingestion:</b>	Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Contact a Poison Control Center for immediate advice. Urgent treatment is necessary! Seek immediate medical attention.
<b>Note to Physician:</b>	Chlorine dioxide vapors are emitted when this product contacts acids or chlorine. If these vapors are inhaled, monitor patient closely for delayed development of pulmonary edema which may occur up to 48 - 72 hours post-inhalation. Probable mucosal damage may contraindicate the use of gastric lavage. Following ingestion, neutralization and use of activated charcoal is not indicated.

## 5. Fire Fighting Measures

<b>Flash Pt:</b>	
<b>Explosive Limits:</b>	LEL: UEL:
<b>Autoignition Pt:</b>	
<b>Suitable Extinguishing Media:</b>	Dilute with a large quantity of water.
<b>Fire Fighting Instructions:</b>	Wear self-contained respiratory protective device. Wear fully protective suit.
<b>Flammable Properties and Hazards:</b>	Formation of toxic gases is possible during heating, in case of fire or contact with acids. (Chlorine Dioxide gas)

## 6. Accidental Release Measures

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid breathing vapors, mist or gas.
<b>Environmental Precautions:</b>	Do not allow product to enter sewers, surface of ground water. Do not allow liquid to dry because this could present a fire hazard. In case of contamination, do not reseal container. Isolate in an open, well-ventilated area.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders sawdust). Send for recovery or disposal in suitable receptacles. Dispose contaminated material as waste according to Sec. 13. After spillage has been collected, area may be flushed with water or wet-brushed. Avoid letting spilled material evaporate to dryness.

## 7. Handling and Storage

**Precautions To Be Taken in Handling:** Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Use approved, clean containers only. Keep containers closed when not in use. Avoid inhalation of vapors or mist upon opening container.

**Precautions To Be Taken in Storing:** Do not expose containers to open flame, excessive heat, or direct sunlight. Do not puncture or drop containers. Handle with care and avoid spillage on the floor. Keep material out of reach of children. Keep material away from incompatible materials. Wash thoroughly after handling. Ensure adequate ventilation. Do not add product to any container containing residuals of other products - contaminations may start an exothermic chemical reaction that liberates hazardous gases that may combust or explode. Keep container tightly closed. Store in a cool, well-ventilated place. Do not store in direct sunlight. Store above freezing point. Store away from acids, strong oxidizing agents, strong reducing agents, combustible materials, powdered metals, Phosphorous, Sulfur compounds, reactive metals (Zinc & Aluminum) and their alloys (Brass, etc.), Ammonia, organic materials, Amines or vulcanized rubber.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
10049-04-4	Stabilized chlorine dioxide	PEL: 0.1 ppm	TLV: 0.1 ppm STEL: 0.3 ppm	

**Respiratory Equipment (Specify Type):** None required under normal use conditions. Full-face vapor respirator may be required as backup to engineering controls when proper.

**Eye Protection:** Goggles or face shield

**Protective Gloves:** Neoprene

**Other Protective Clothing:** Chemically resistant gloves, apron, safety goggles and face are recommended. The usual precautionary measures for handling chemicals should be followed: Keep away from foodstuff, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Use only in well ventilated areas. Avoid contact with the eye and skin.

**Engineering Controls (Ventilation etc.):** All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits. Breathing equipment: None required under normal use conditions. Full-face vapor respirator may be required as backup to engineering controls when appropriate.

### 9. Physical and Chemical Properties

**Physical States:**  Gas  Liquid  Solid

**Appearance and Odor:** Clear to pale yellow liquid.  
Odorless.

**Melting Point:**

**Boiling Point:**

**Autoignition Pt:**

**Flash Pt:**

**Explosive Limits:** LEL: UEL:

**Specific Gravity (Water = 1):**

**Vapor Pressure (vs. Air or mm Hg):** 0.03 MM\_HG

**Vapor Density (vs. Air = 1):**

**Evaporation Rate:** <=1.00 (BuAC=1)

**Solubility in Water:** Complete

**pH:** 9.00 - 9.5

**Percent Volatile:**

### 10. Stability and Reactivity

**Stability:** Unstable  Stable

**Conditions To Avoid - Instability:** Contamination with foreign materials.

**Incompatibility - Materials To Avoid:** Strong acids and foreign materials.

**Hazardous Decomposition or Byproducts:** Chlorine Dioxide gas.

**Possibility of Hazardous Reactions:** Will occur  Will not occur

**Conditions To Avoid - Hazardous Reactions:** No decomposition if used and stored according to specifications.

### 11. Toxicological Information

**Toxicological Information:** On Skin: Irritant to skin.  
 On eyes: Severe eye irritation.  
 Sensitization: No sensitizing effects known.  
 Sub-acute to chronic toxicity: No further relevant information available.  
 Additional toxicological information:  
 Carcinogenic categories  
 NTP (National Toxicology Program): None of the ingredients is listed.  
 OSHA-Ca (Occupational Safety and Health Administration): No further relevant information available.  
 Probable routes of exposure:  
 EYE: Irritant to the eyes, causes burns.  
 INHALATION: Can cause headache, nausea.  
 SKIN: Slight irritant when overexposure occurs.  
 INGESTION: Causes severe burns to the lungs.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
10049-04-4	Stabilized chlorine dioxide	n.a.	n.a.	n.a.	n.a.

### 12. Ecological Information

### 13. Disposal Considerations

**Waste Disposal Method:** The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual material should be treated as hazardous.  
 Recommendations: Disposal must be made according to official regulations.  
 Recommended cleansing agent: Water, if necessary with cleansing agents.

### 14. Transport Information

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not DOT Regulated  
**DOT Hazard Class:**  
**UN/NA Number:**

### 15. Regulatory Information

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
10049-04-4	Stabilized chlorine dioxide	No	No	Yes

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
10049-04-4	Stabilized chlorine dioxide	CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: Yes; NJ EHS: Yes - 0368; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: Yes



# SAFETY DATA SHEET

## MaxKlor

Page: 6 of 6

Revision: 06/23/2015  
Supersedes Revision: 05/12/2015

### Regulatory Information:

MaxKlor- This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### CAUTION

KEEP OUT OF REACH OF CHILDREN. Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Thoroughly wash with soap and water after handling.

## 16. Other Information

**Revision Date:** 06/23/2015

### Additional Information About

#### This Product:

#### Company Policy or

#### Disclaimer:

Preserve International believes that the data contained herein is factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted. However, the information presented is not to be taken as a warranty or representation for which Preserve International assumes legal responsibility. This data is offered solely for your information in accordance with applicable Federal, State, and Local laws and regulations.