



your partner in food safety

SDS

Safety Data Sheet

1) Product Identification

Product Name: Dioxy-Chlor

Product Code: I00090

Recommended Use: Effective bleach and deodorizer.

Producer: Birko Corporation
9152 Yosemite Street
Henderson, CO 80640-8027

Contact Information: (303) 289-1090 or 1-800-525-0476

Emergency Number: CHEMTREC 1-800-424-9300

2) Hazard(s) Identification

Health	Environmental	Physical
Acute Toxicity Cat. 4 (oral, Dermal) Cat. 1 (vapor) Skin Corrosion Cat. 1B Eye Effects Cat. 1	Aquatic Toxicity Acute Cat. 3	Corrosive Cat. 1

Labeling:**Symbol:**

Signal Word: Danger
Corrosive, Irritant, Aquatic Toxicity

Hazard Statement(s): Causes irreversible eye damage. Harmful or fatal if swallowed. Causes burns. Do not get into eyes, on skin, or on clothing. Corrosive to certain types of metals.

Precautionary Statement(s): Use rubber gloves, protective splash-proof goggles, and protective clothing. Remove contaminated clothing and wash before re-use. Do not contaminate food, feed, or water. Keep container closed when not in use.

3) Composition/ Information on Ingredients

Name(s)	Synonym(s)	CAS Number	Weight %
Sodium Chlorite	Sodium Salt Textone	7758-19-2	<35%

4) First-Aid Measures

Inhalation	Skin Contact	Eye Contact	Ingestion
Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.	Immediately remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not re-use clothing until thoroughly cleaned get medical attention.	Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.	DO NOT induce vomiting. Rinse mouth with water. If conscious, give large quantities of water or milk and get immediate medical attention. Never give anything by mouth to an unconscious person!

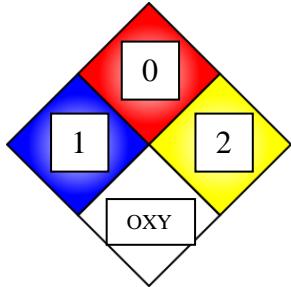
5) Firefighting Measures

Suitable Extinguishing Media: Water, Carbon Dioxide, Dry Chemical, and Foam Blanket

Unsuitable Extinguishing Media: N/A

Specific Hazards: Always wear self-contained breathing apparatus when fighting a chemical fire.

Special Protective Actions for Fire-Fighters: Chlorine Dioxide gas liberated during combustion. Wear self-contained breathing apparatus and full protective gear. Stay upwind and keep out of low areas.



6) Accidental Release Measures

Personal Precautions: Be sure to use all necessary Personal Protective Equipment

Environmental Precautions: Avoid contamination of food, feed, sewers, waterway, or groundwater.

Methods and Materials for Containment and Clean-Up: Capture material and contain for disposal. Do not use combustible absorbents.

7) Handling and Storage

Precautions for Safe Handling: Do not contaminate food, feed, or natural water. Supplier is not responsible for disposition of this product. Do not reuse container. Maintain an eyewash station, and safety shower in product handling areas.

Conditions for Safe Storage: Keep container closed when not in use. Store in a cool, dry, and well-ventilated location. Keep away from heat and incompatible materials.

8) Exposure Controls and Personal Protection

Appropriate Engineering Controls: Ventilation: Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

Exposure Limits:

Name (CAS-No.)	PEL	TWA	Ceiling	IDLH
Sodium Chlorite (7758-19-2)	1 mg/m ³	1 mg/m ³	N/A	N/A

Personal Protective Equipment

Eye/Face	Skin	Gloves	Boots
 			

Eye/Face: Safety glasses with Side shields. Wear chemical safety goggles with face shield when appropriate.

Skin: Wear chemical resistant clothing and rubber boots.

Gloves: Wear appropriate chemical resistant gloves.

Respiratory: Use only when concentrations exceed exposure limits. If limits are exceeded a NIOSH approved respirator is required. If eye irritation occurs use a full face style mask. When vapor concentrations are above 10 ppm or in a spill emergency a NIOSH approved self-contained breathing apparatus or airline respirator, with full-face piece is required. If respirators are warranted in the workplace a respiratory protection programs must meet 29 CFR 1910.134, and be followed.

Protective Material Types: Butyl rubber, natural rubber, neoprene, nitrile, polyvinyl chloride (PVC), or Tychem (R)

9) Physical and Chemical Properties

Physical Form: Liquid

Appearance: Light yellow-tan

Odor: Mild chlorine

pH: 8.5

Melting Point: Not available

Freezing Point: 16°F

Boiling Point: 223° F

Flash Point: Not applicable

Evaporation Rate: < 1

Flammability: Not flammable

Upper/Lower Flammability or explosive limits: Not applicable

Vapor Pressure: Not established

Vapor Density: > 1

Relative Density: Not available

Specific Gravity: 1.08

Solubility: 100%

Partition coefficient: Not available

Auto-Ignition Temperature: Not applicable

Decomposition Temperature: Not available

10) Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: Aviod heat, flames, sparks and other sources of ignition. Avoid evaporation to dryness. Dried material can ignite upon contact with combustibles. Avoid contamination with foreign materials. Avoid exposure to sunlight or ultraviolet light.

Materials to Avoid: Acids, reducing agents, combustible material, oxidizing agents, hyochlorite, organic solvents and compounds, garbage, dirt organic materials, household products, chemicals, soap products, paint products, vinegar, beverages, oils, pine oil, dirty rags, sulfur- containing rubber, or any other foreign matter.

Hazardous Decomposition Products: Chlorine Dioxide gas liberated during combustion.

11) Toxicological Information

Acute Toxicity:

Test	Results	Basis
Oral LD50 (Rat)	389-1800 mg/kg	Product test data
Dermal LD50 (Rabbit)	>2gm/kg	Product test data
Inhalation LC50 (Rat)	0.29 mg/l	Product test data

Summary Comments: Mist or spray may cause severe irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes. In some cases, pulmonary edema may develop. Skin contact may cause severe irritation, pain, and possibly burns. Direct eye contact may cause severe irritation, pain and burns, possibly severe, and permanent damage including blindness. Ingestiong the material may cause immediate pain and severe burns of the mucous membranes. There may be discoloration of the tissues. Swallowing and speech may be difficult at first and then almost impossible. The effects on the esophagus and gastrointestinal tract may range from irritation to severe corrosion to death. Edema of the epiglottis and shock may occur.

Sub-chronic/Chronic Toxicity:

Test	Results	Comments
N/A	N/A	N/A

Summary Comments: Sodium chlorite has produced hemolytic anemia in several animal species at concentrations of 100 mg/L or higher. In a sub chronic study using rats, hematological alterations included decreased erythrocyte counts, hemoglobin levels, and hemacrit. Methemoglobin levels decreased in females, but increased in males. There is no evidence of kidney effects in humans; however, in animal studies with sodium chlorite, there is limited evidence of kidney effects.

Medical conditions aggravated by exposure: Respiratory system (including asthma and other breathing disorders)

12) Ecological Information

Toxicity:

Test	Results
Daphnia Magna LC50	48 hours 0.29 mg/l at 80%

Rainbow trout LC50	96 hours 290 mg/l at 80%
Blue gill LC50	96 hours 265-310 mg/l at 80%
Sheepshead minnows LC50	96 hours 62-90 ppm
Mallard duck LD50	0.49-1.00 g/kg at 80%
Bob white quail LD50	0.39-0.66 g/kg at 80%

Persistence and Degradability: This material will eventually degrade to sodium chloride.

Bioaccumulative Potential: This material is believed not to bioaccumulate.

Mobility in Soil: This material is inorganic and not subjected to biodegradation; however, chlorite ions are reduced by some bacteria under anaerobic conditions.

Other Adverse Effects: Not established

13) Disposal Considerations

Disposal Method: Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D002

14) Transport Information

UN Number: UN1908

UN Proper Shipping Name: Chlorite Solution

Transport Hazard Class (es): 8

Packing Group: III

Environmental Hazard(s): N/A

Special Precautions for User: N/A

15) Regulatory Information

US Regulations:

CERCLA Sections 102a/103 Hazardous substances (40 CFR 302.4):

Not regulated

SARA Title III SARA Sections 311/312 Hazardous Categories (40 CFR 370.21):

Acute: Yes

Chronic: No

Fire: No

Reactive: No

Sudden Release: No

State Regulations:

California Proposition 65: This product is not listed

New Jersey Right to Know Hazardous Substance List:

Sodium Chlorite 7758-19-2

Canadian Regulations:

Controlled Products Regulations (CPR): This product has been classified in accordance with the criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the CPR.

WHMIS Classification: D1A, D1B, and E

National Inventory Status: U.S. Inventory (TSCA): All the components of this substance are listed on or exempt from the inventory.

TSCA 12(b) Export Notification: Not Listed

Canada Inventory (DSL/NDSL): All components of this product are listed on the DSL

16) Other Information

HMIS

0	FLAMMABILITY
2	HEALTH
2	REACTIVITY
J	Personal Protection

Hazard Index

4-Severe

3-Serious

2-Moderate

1-Slight

0-Minimal

Personal Protective Index

A		E		I						
B		F		J						
C		G		K						
D		H		X	Ask your supervisor					
Personal Protective Equipment										
Safety Glasses	Face Shield	Splash Goggles	Airline Head or Mask	Gloves	Synthetic Apron	Dust Respirator	Vapor Respirator	Dust + Vapor Respirator	Pull Suit	Boots

Preparer: Ramsey Johnson

Approved By: Terry L. McAninch

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