

**BECKART ENVIRONMENTAL, INC.**

6900 46TH STREET  
KENOSHA, WI 53144  
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Safety Data Sheet  
Revision date: 5/21/15

This SDS complies with 29 CFR 1910.1200 and appendix D (The Hazard Communication Standard- GHS)

**SECTION 1: IDENTIFICATION:**

**PRODUCT NAME:** Aqua-Dry Kits (50G, 100G, 500G) - Component A  
**PRODUCT TYPE:** Deodorizing delivery system (pouch) for the generation of chlorine dioxide  
**CHEMICAL NAME:** Powder composition containing Sodium Chlorite and additives

**SUPPLIER:**

BECKART ENVIRONMENTAL  
6900 46<sup>TH</sup> STREET  
KENOSHA, WI 53144  
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**EMERGENCY 24/7 CONTACT**

CHEMTREC PHONE 1-800-424-9300

**SECTION 2: HAZARDS IDENTIFICATION:**

**Emergency Overview**

**GHS Classification:**

H272 Oxidizing solids (Category 2)  
H301 Acute Toxicity- Oral (Category 3)  
H310 Acute Toxicity- Dermal (Category 2)  
H330 Acute Toxicity- (inhalation: dust, mist) (Category 2)  
H314 corrosion- Causes severe skin burns and eye damage (Category 1B)  
H318 eye damage- Serious eye damage/eye irritation (Category 1)  
H400 Acute aquatic toxicity (Category 1)

**GHS Label elements, including precautionary statements**

**Pictograms**



**GHS Signal Word Danger**

**GHS Hazard statement(s):** H272 May intensify fire: oxidizer.  
H301 Toxic if swallowed.  
H310+H330 Fatal in contact with skin or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H400 Very toxic to aquatic life.

**Precautionary statement(s)- PREVENTION:**

P210 Keep away from heat, sparks, open flames, hot surfaces, no smoking  
P220 Keep/Store away from clothing/ combustible materials.  
P260 Do not breath dust/fume/gas/mist/vapors/spray.  
P262 Do not get in eyes, on skin, or on clothing  
P270 Do not eat, drink or smoke when using this product

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.

P284 (in case of inadequate ventilation) Wear respiratory protection.

**Precautionary statement(s)- RESPONSE:**

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do Not induce vomiting.

P303+P361+P353 IF ON SKIN (or hair) : Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340- IF INHALED: Remove person to fresh air and keep 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.

P310 Immediately call a POISON CENTER or doctor.

P363 Wash contaminated clothing before reuse.

P370+P378- In case of fire: Use carbon dioxide, powder, alcohol-resistant foam for extinction.

P391 Collect spillage

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

P405 Store locked up

P501 Dispose of contents/container to comply with local, state and federal regulations.

**Other Hazards Not Contributing to the Classification:** Not available.

**Unknown Acute Toxicity:** Not available.

**Potential Health effects:**

**Inhalation:** May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Skin:** May be fatal if absorbed through skin. Causes skin burns.

**Eyes:** Causes eye burns

**Ingestion:** Toxic if swallowed.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS:**

<u>Ingredient</u>	<u>CAS #:</u>	<u>Percent (%)</u>	<u>EC-No</u>
Sodium Chlorite	7758-19-2	<45%	231-836-6

Full text of H-phrases: see section 16

\*A range of concentration as prescribed by the Controlled Products Regulations has been used where necessary, due to varying composition. The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

**SECTION 4: FIRST AID MEASURES:**

**General:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**If inhaled:** Using proper respiratory protection, immediately move the exposed person to fresh air. Keep at rest and in a position comfortable for breathing. Seek medical attention immediately. If not breathing, give artificial respiration.

**In case of skin contact:** Take off contaminated clothing and shoes immediately. Flush skin with soap and plenty of water. Immediately call a POISON CENTER or doctor/physician.

**In case of eye contact:** Immediately rinse with water for at least 15 minutes while holding the eyelids wide open. Immediately call a POISON CENTER or doctor/physician. Continue rinsing eyes during transport to hospital.  
**If swallowed:** Do NOT induce vomiting. Seek medical attention immediately.

**Most Important Symptoms/ Effects (Acute and Delayed)**

**General:** Causes severe skin burns and eye damage

**Inhalation (Breathing):** Fatal if inhaled.

**Skin:** Fatal in contact with skin.

**Eye:** Causes serious eye damage.

**Ingestion (Swallowing):** Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

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

If you feel unwell, seek medical advice (show label where possible).

**SECTION 5: FIREFIGHTING MEASURES:**

**Extinguishing media:**

**Suitable extinguishing media:** Use extinguishing agents appropriate for surrounding fire.

**Unsuitable extinguishing media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

**Special Hazards Arising from the substance or mixture:**

**Fire Hazard:** Not flammable, may intensify fire: oxidizer.

**Explosion Hazard:** Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

**Reactivity:** 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.

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

**Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Notify appropriate authorities if liquid enters sewers or waterways.

**Hazardous combustion Products:** Corrosive vapors. Acrid smoke and irritating fumes.

**Other information:** Do not allow run-off from fire fighting to enter drains or water sources.

**Reference to Other Sections:** Refer to section 9 for flammability properties.

**SECTION 6: ACCIDENTAL RELEASE MEASURES:**

**Personal precautions, Protective equipment and Emergency procedures**

**General Measures:** Avoid all unnecessary exposure. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. Ensure adequate ventilation. No smoking.

**For Non-Emergency Personnel**

**Protective equipment:** Use appropriate personal protection equipment (PPE), safety glasses, gloves, dust mask.

**Emergency procedures:** Evacuate unnecessary personnel. Keep upwind.

**For Emergency Personnel**

**Protective equipment:** Equip cleanup crew with proper protection.

**Emergency procedures:** Ventilate area. Eliminate ignition sources.

**Environmental Precautions**

If spill could potentially enter any waterway, including intermittent dry creeks, contact the U.S. COAST GUARD NATIONAL RESPONSE CENTER at 800-424-8802. In case of accident or road spill notify CHEMTREC at 800-424-9300 (in USA) or (international code) + 1-703-527-3887.

**Methods and materials for containment and cleaning up**

**Methods for cleaning up:** Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by we-brushing and place in container for disposal according to local regulations. . Clear up spills immediately and dispose of waste safely. Practice good housekeeping

**Reference to other sections:** See heading 8, Exposure Controls and Personal Protection.

## **SECTION 7: HANDLING AND STORAGE:**

### **Precautions for safe handling**

**Additional Hazards when processed:** Hazardous waste due to potential risk of explosion.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Provide good ventilation in process area to prevent formation of vapor. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke in the areas where product is used.

### **Conditions for safe storage, including any incompatibilities**

**Technical measures:** Observe all regulations and local requirements regarding storage of containers. Proper grounding procedures to avoid static electricity should be followed.

**Storage conditions:** Store in a dry, cool and well ventilated place. Keep containers closed when not in use. Store away from heat sources, ignition sources, direct sunlight, incompatible materials, combustible materials.. Storage areas should be periodically checked for corrosion and integrity. Useable materials for containers are PE, PP< PVC.

**Incompatible Materials:** Strong reducing agents, metals, ammonia, combustible materials, amines, sources of ignition, direct sunlight, heat sources.

### **Specific End Uses**

For use with component B of the aquadry-kit as a deodorizing delivery system (pouch) for the generation of chlorine dioxide.

## **SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION:**

### **Control parameters**

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

### **Exposure controls**

**Appropriate Engineering controls:** Product to be handled in a close system and under strictly controlled conditions. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Avoid all unnecessary exposure. Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Protective goggles. Gloves. Protective clothing.

**Materials for protective clothing:** Wear suitable protective clothing.

**Hand protection:** Impermeable protective gloves. Nitrile rubber.

**Eye protection:** A full face shield is recommended. Chemical goggles.

**Skin and body protection:** Wear suitable protective clothing. Chemical resistant suit.

**Respiratory protection:** Use a NIOSH approved respirator or self contained breathing apparatus whenever exposure may exceed established Occupations Exposure Limits. Where risk assessment shows air purifying respirators are appropriate use a full face particle respirator type N100.

**Environmental Exposure Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**Consumer Exposure controls:** Do not eat, drink or smoke during use.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:**

<b>Physical state:</b> powder	<b>Appearance:</b> White
<b>Odor:</b> Almost odorless	<b>Odor Threshold(ppm):</b> No data available
<b>pH:</b> 10 approx. 100g/l water	<b>Melting point:</b> Not available
<b>Boiling point:</b> N/A	<b>Solubility:</b> 250g/l water (@ 20degrees C)

#### **SECTION 10: STABILITY AND REACTIVITY:**

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous reactions:** Hazardous polymerization will not occur.

**Conditions to avoid:** Direct sunlight, moisture, extremely high or low temperatures, open flames, sources of ignition and incompatible materials.

**Incompatible materials:** Reducing agents, oxidizers, acids, combustible materials.

**Hazardous decomposition products:** Under fire conditions, Carbon oxides, Hydrogen chloride gas, Sodium oxides.

#### **SECTION 11: TOXICOLOGICAL INFORMATION:**

##### **Information on Toxicological Effects- Product: Aqua-dry kit component A**

**Acute Toxicity:** Toxic if swallowed. Fatal in contact with skin. Fatal if inhaled.

**Acute (oral) LD50**200-2000 mg/kg (Rats) (OECD 401)

**Skin corrosion/ irritation:** Skin- rabbit- Corrosive (Sodium Chlorite) (OECD 404)

**Serious eye damage:** causes serious eye damage

##### **Information on Toxicological Effects- Ingredient(s): Sodium chlorite (7758-19-2)**

LD50 and LC50 Data:

LD50 Oral Rat 200-500 mg/kg

LD50 dermal rabbit 50-400mg/kg

LC50 inhalation rat 0.23mg/l/4h

**Reproductive toxicity:** Not classified

**Specific target organ toxicity (single exposure):** Not classified

**Specific target organ toxicity (repeated exposure):** Not classified

**Potential adverse human health effects and symptoms:** Based on available data, the classification criteria are not met. Toxic if swallowed. Fatal in contact with skin. Fatal if inhaled.

**Symptoms/injuries after inhalation:** Fatal if inhaled.

**Symptoms/injuries after skin contact:** Fatal in contact with skin.

**Symptoms/injuries after eye contact:** Causes serious eye damage.

**Symptoms/injuries after ingestion:** Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

#### **SECTION 12: ECOLOGICAL INFORMATION:**

##### **Toxicity**

**Ecology-General:** Very toxic to aquatic life.

**Aqua-dry kits- Component A**

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Fish toxicity : LC50 Fish 1 100-2000mg/l (96h. Brachydanio rerio) OECD 203

Bacteria toxicity: EC50 100-800 mg/l (OECD209)

**Sodium Chlorite (7758-19-2)**

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LC50 Fish 1 100-500mg/l (96h. Brachydanio rerio: Technical product)

EC50 Daphnia 1 1 mg/l (Exposure time: 48 h- Species: Daphnia magna : Technical product ).

LC 50 Fish 2 50 mg/l (Exposure time: 48h- Species: Lepomis macrochirus)

EC50 Daphnia 2 0.29mg/l (48h: Daphnia magna)

**Persistence and Degradability** Not established

**Bioaccumulative Potential**

Sodium Chlorite (7758-19-2)

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Log Pow -7.18 (estimated value)

Bioaccumulation potential Bioaccumulation: not applicable

**Mobility in soil** Not available

**Other adverse effects** Avoid release to the environment

**SECTION 13: DISPOSAL INFORMATION:**

**Waste Treatment methods:** Dispose of waste material in accordance with all local, regional, national, and international regulations. Hazardous waste due to toxicity.

**Sewage Disposal Recommendations:** Do not dispose of waste into sewer. Do not empty into drains; dispose of this material and its container in a safe way. Avoid release to the environment.

**SECTION 14: TRANSPORT INFORMATION:**

**U.S. DOT 49 CFR 172.101:** UN1496, Sodium Chlorite, 5.1, PGII

DOT Packaging Exceptions (49 CFR 173.xxx): None

**SECTION 15: REGULATORY INFORMATION:**

**US Federal Regulations**

**OSHA REGULATORY STATUS:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**TSCA:**

Sodium Chlorite (7758-19-2) Listed on the US TSCA (Toxic Substances Control Act) inventory

**Canadian Regulations**

Sodium Chlorite (7758-19-2)

**WHMIS Classification:**

Class C- Oxidizing material

Class D Division 1 Subdivision A- Very toxic material causing immediate and serious toxic effects.

Class E- Corrosive Material

**SECTION 16: OTHER INFORMATION:**

Revision date: 5/13/15

**GHS Full Text Phrases:**

Acute Tox. 2 (Dermal) Acute toxicity (dermal), Category 2

Acute Tox. 2 (Inhalation: dust, mist) Acute toxicity (inhalation: dust, mist) category 2

Acute Tox. 3 (Dermal) Acute toxicity (dermal), Category 3

Acute Tox. 3 (oral) Acute toxicity (oral), Category 3

Acute Tox. 4 (oral) Acute toxicity (oral) Category 4

Aquatic Acute 1 Hazardous to the aquatic environment- Acute Hazard Category 1

Eye Dam. 1 Serious eye damage/eye irritation Category 1

Ox. Sol. 2 Oxidizing Solids, Category 2

Skin Corr. 1B Skin corrosion/irritation Category 1B

H272 May intensify fire: oxidizer

H301 Toxic if swallowed

H302	Harmful if swallowed
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life

HMIS rating:

Health- 3 Serious hazard- major injury likely unless prompt action is taken and medical treatment is given

Flammability- 0 minimal hazard

Physical- 0 minimal hazard

Personal protection: F

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