

**BECKART ENVIRONMENTAL, INC.**

6900 46TH STREET  
KENOSHA, WI 53144  
PHONE # (262) 656-7680

Safety Data Sheet  
Revision date: 6/3/2020

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

**SECTION 1: IDENTIFICATION:**

**PRODUCT NAME:** Aqua-Tab  
**PRODUCT TYPE:** Deodorizing delivery system for the generation of chlorine dioxide  
**CHEMICAL NAME:** Tablet composition containing Sodium Chlorite and additives

**SUPPLIER:**

BECKART ENVIRONMENTAL  
6900 46<sup>TH</sup> STREET  
KENOSHA, WI 53144  
PHONE: (262)656-7680 FAX: (262)656-7699

**EMERGENCY 24/7 CONTACT**

CHEMTREC PHONE 1-800-424-9300

**SECTION 2: HAZARDS IDENTIFICATION:**

**Emergency Overview**

**GHS Classification:**

Oxidizing solids (Category 1)  
Acute Toxicity- Oral (Category 4)  
Acute Toxicity- Dermal (Category 3)  
Acute Toxicity- (inhalation: dust, mist) (Category 3)  
Corrosion- Causes severe skin burns and eye damage (Category 1B)  
Eye damage- Serious eye damage/eye irritation (Category 1)  
Skin sensitizer (category 1)  
STOT Re2

**GHS Label elements, including precautionary statements**

**Pictograms**



**GHS Signal Word**

**Danger**

**GHS Hazard statement(s):**

May cause fire or explosion: strong oxidizer  
Harmful if swallowed.  
Toxic in contact with skin or if inhaled.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause damage to organs through prolonged or repeated exposure.  
Very toxic to aquatic life  
Very toxic to aquatic life with long lasting effects.  
Contact with water liberates toxic gas.

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

Keep away from heat, sparks, open flames, hot surfaces, no smoking  
Keep/Store away from clothing/ combustible materials.  
Take any precaution to avoid mixing with combustibles.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product

Use only outdoors or in well ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release into the environment.  
Wear protective gloves/protective clothing/eye protection/ face protection.  
Wear fire/flame resistant/retardant clothing.

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

IF SWALLOWED: Rinse mouth. Call a poison center/doctor if you feel unwell.  
IF ON SKIN (or hair) : Remove/take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical attention/advice. Call a poison center/doctor if you feel unwell.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.  
IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
In case of fire: use copious amounts of water for extinction.  
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  
Store locked up.  
Store away from other materials.  
Dispose of contents to hazardous or special Waste collection point.

**S-phrases:**

Keep container tightly closed and dry. Keep locked up and out of reach of children. Do not breathe dust.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Do not empty into drains. Wear suitable protective clothing, gloves and eye/face protection. IN case of accident or if you feel unwell, seek medical advice immediately (show label where possible). Use only in well ventilated areas. Avoid release into the environment. Refer to special instructions/ safety data sheets.

**Possible Hazards:**

Contact with acids liberates very toxic chlorine dioxide gas.  
Contact with water liberates toxic gas.  
Explosive when mixed with combustible material.  
Harmful in contact with skin and if swallowed.  
Causes burns.  
Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. Further possible risks to man and the environment. As a result of decomposition and/or reaction products, are to be taken from the corresponding sections of this safety data sheet.

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

<b><u>Ingredient</u></b>	<b><u>CAS #:</u></b>	<b><u>Percent (%)</u></b>	<b><u>EC-No</u></b>
Sodium Chlorite	7758-19-2	15-25%	231-836-6
Sodium Bisulfate Monohydrate	7681-38-1	35-45%	231-655-7

\*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).  
**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.  
**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.  
**If swallowed:** Do NOT induce vomiting. Seek medical attention immediately.

**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.

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

No information available.

**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:** Water should only be used in flooding quantities as release of toxic and flammable chlorine dioxide may occur.

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

This product is an oxidizer. May increase flammability of combustibles, organic or other readily oxidizable materials. This product is corrosive and presents a contact hazard to firefighters. When involved in a fire, this material may decompose and produce irritating vapors and toxic gases (carbon oxides, hydrogen chloride, sulfur dioxide and other oxides of sulfur, chlorine and oxygen gas). Contact with water may produce flammable and toxic chlorine dioxide gas, as well as other oxidizing substances like hydrogen peroxide, oxygen and ozone and corrosive substances like sulfuric acid. The lower explosive limit for chlorine dioxide is 10%. If large amounts of the product are involved in a fire, it is possible that the application of water mist or fog could release enough chlorine dioxide gas in a confined space to present an explosion hazard. The chlorine dioxide gas will dissolve harmlessly in flooding amounts of water. Due to the sodium chlorite component, this product may turn shock-sensitive if contaminated with organic matter.

**Explosion Hazard:** Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Chlorine dioxide gas evaporated from solutions may explode at concentrations of 10% by volume. Don't allow chlorine dioxide gas to accumulate with a confined space.

**Reactivity:** Thermal decomposition generates: corrosive vapors.

**Advice for Firefighters:**

Wear self contained breathing apparatus and full protective clothing. Chemical resistant clothing may be necessary. Move containers from fire area if it can be done without risk to personnel. Water should be used for cooling of impermeable containers of product only, as contact with water may produce toxic and flammable chlorine dioxide gas. Responders must ensure all persons in areas downwind of spill are protected from inhalation of potential release of chlorine dioxide. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas. Rinse contaminated equipment thoroughly before returning such equipment to service.

**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:** Carbon oxides, hydrogen chloride, sulfur dioxide and other oxides of sulfur, chlorine and oxygen gas.

**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.

**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:** Collect spillage and collect in suitable container for disposal. Scoop up or vacuum into a container for reclamation or disposal. Avoid dusting. Soak up spill matter using an absorbent. Flush residual material down drain with an excess of water, in accordance with local regulations. If a solution of the product is spilled, take up as much as possible and place in a suitable container for disposal in compliance with local regulations. .

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

**SECTION 7: HANDLING AND STORAGE:**

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

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Wash thoroughly after handling.

Store in a cool, dry, well ventilated location, away from incompatible materials and direct sunlight. Keep container tightly closed when unused.

**Incompatible Materials:** Store away from flammable materials. Storage on wooden floors and pallets is not recommended.

**Specific End Uses**

Use product only as directed by label. Keep away from children/animals. Avoid contact with skin/eyes. Avoid breathing any vapors/fumes.

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

**Exposure controls**

**Appropriate Engineering controls:** Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment:** Avoid all unnecessary exposure. Wear respiratory protection if required. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Protective goggles, safety glasses with side-shields or face shield. Gloves. Protective clothing.

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

**Hand protection:** Impermeable protective gloves. PVC material.

**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.

**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>	tablet form	<b>Appearance:</b>	White
<b>Odor:</b>	Chlorine (like) odor, slight	<b>pH value:</b>	3.0-4.0
<b>Melting point:</b>	Not available	<b>Stability:</b>	1 year
<b>Solubility:</b>	reacts with water to produce yellow liquid, dissolves within 5 mins.		

**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. Upon exposure to water vapor, chlorine dioxide gas is released.

**Conditions to avoid:** Direct sunlight, moisture, heat.

**Incompatible materials:** Strong acids or alkalis. Reducing agents. Combustible material.

**Hazardous decomposition products:** Chlorine. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: TOXICOLOGICAL INFORMATION:**

**Acute toxicity data:**

Sodium Bisulfate: LD50 oral 2,800 mg/kg (Rat)

Sodium Chlorite: LD50 oral 165mg/kg (Rat)

LD50 dermal 50-400mg/kg (rabbit)

LC50 Inhalation 0.23 mg/l/4h (rat)

**Skin corrosion:** Causes severe skin burns and eye damage.

**Serious eye damage/irritation:** Causes serious eye damage.

**Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met. There are no known carcinogenic chemicals listed in IARC, NTP, OSHA-Ca in this product.

**Reproductive toxicity:** Based on available data, the criteria are not met.

**STOT-single exposure:** Based on available data, the criteria are not met.

**STOT- repeated exposure:** Based on available data, the criteria are not met.

Target organs: Skin, respiratory system, eyes.

**Aspiration hazard:** Not applicable.

Other adverse effects: See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Symptoms/ effects, both acute and delayed causes serious eye damage.

**SECTION 12: ECOLOGICAL INFORMATION:**

**Toxicity**

Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

**Sodium Bisulfate:** Acute EC50 90mg/l Fresh water- Daphnia magna/ 48hrs.

Sodium Chlorite: Acute EC50 0.0146 to 0.018 mg/l Fresh water- Daphnia magna/ 48hrs.

Acute LC50 75-90 mg/l Marine water- Cyprinodon variegatus/ 96hrs.

CLO<sub>2</sub> generated by tablets: LC50 100-200mg/l – fish/ 96hrs.

**Persistence and Degradability** Product is biodegradable. Persistence: Soluble in water, persistence is unlikely, based on the information available.

**Bioaccumulative Potential:** Bioaccumulation is unlikely

**Mobility in soil** The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

**Other adverse effects**

Endocrine Disruptor information: This product does not contain any known or suspected endocrine disruptors.

Persistent organic pollutant: This product does not contain any known or suspected substance.

Ozone depletion potential: This product does not contain any known or suspected substance.

**SECTION 13: DISPOSAL INFORMATION:**

**Waste Treatment methods:** Dispose of waste material in accordance with all local, regional, national, and international regulations. Large volumes should be taken to an authorized chemical disposal site/landfill in accordance with local and national regulations. Used product may have different hazards or properties than the original product.

**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:** UN3085, Oxidizing solid, corrosive, N.O.S. (contains Sodium Chlorite), 5.1,8 PGII

For domestic highway or rail transportation, this product may qualify for DOT Small Quantity Exception: See regulations for full details. Package must meet requirements and be marked with the following statement.

*“This package conforms to 49 CFR 173.4 for domestic highway or rail transport only.”*

**SECTION 15: REGULATORY INFORMATION:**

**US Federal Regulations**

Product Name: Aqua-Tab (all sizes of tablets)

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**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

**SARA 311 and 312 Hazard categories:**

Immediate (Acute): Yes Delayed (chronic): No Fire: NO Reactivity: No Sudden release of pressure: No

**SARA Section 313:** This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**CALIFORNIA PROPOSITION 65:** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins

**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: 6/3/2020

This data is furnished gratuitously independent of any sales of the product and only for your investigation and independent verification. While the information is believed to be correct, Beckart Environmental shall in no event be responsible for any damages whatsoever, directly or indirectly, resulting from the publication of or reliance upon data contained herein. No warranty, either expressed or implied, or merchantability, of fitness, or of any nature with respect to the product, or data, is made herein. You are urged to obtain data sheets for all Beckart chemicals you buy, process, use, or distribute, and encouraged to advise anyone working or exposed to such products of the information contained herein.