1. IDENTIFICATION

Product Identifier: GO2™ (Acidified Sodium Chlorite)
Product Name: Acidified Sodium Chlorite (CAS 7758-19-2)
Other means of identification:
SDS #: GO2 International-003
UN/ID No: UN1908
Recommended use of the chemical and restrictions on use:
Recommended Use: Disinfectant/sanitizer/fungicide/algaecide/slimicide/deodorizer. For commercial/industrial use.

Details of the supplier of the safety data sheet:
Supplier Address:
GO2 International
6700 Caballero Blvd.
Buena Park, CA. 90620

Emergency Telephone Number:
Company Phone Number: Phone: 1-714-736-9811
Fax: 1-714-736-9053
Emergency Telephone (24 hr): INFOTRAC 1-800-535-5053 (North America) 1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance: Pale yellow
Physical State: Liquid Solution
Odor: Similar to chlorine

Classification:
Acute toxicity - Oral: Category 3
Acute toxicity - Inhalation (Dusts/Mists): Category 2
Skin corrosion/irritation: Category 2
Serious eye damage/eye irritation: Category 1
Specific target organ toxicity (single exposure): Category 2
Specific target organ toxicity (repeated exposure): Category 2
Oxidizing Solids: Category 2

Signal Word:
Danger

Hazard Statements:
Toxic if swallowed, health damage after ingestion
Fatal if inhaled
Causes skin irritation, Skin eruptions may occur after direct contact.
Causes corrosion injuries
Causes serious eye damage
May cause damage to organs
May cause damage to organs through prolonged or repeated exposure
Acidified Sodium Chlorite Gas Fumes cause respiratory problems.
Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear respiratory protection
Wear protective gloves/protective clothing/eye protection/face protection
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep/Store away from clothing and combustible materials
Take any precaution to avoid mixing with combustibles

Precautionary Statements - Response
If exposed or concerned: Get medical advice/attention
IF IN YES: 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/physician
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash it before reuse
If skin irritation occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other Hazards
Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acidified Sodium Chlorite</td>
<td>7758-19-2</td>
<td>4g/Liter</td>
</tr>
</tbody>
</table>

**If Chemical Name/CAS No is “proprietary” and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

First Aid Measures

General Advice
If exposed or concerned: Get medical advice/attention.

Eye Contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. With open eyelid, instantly flush with copious amounts of lukewarm water for minimum 15 minutes. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin Contact
Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Ingestion
Immediately call a poison center or doctor/physician. Flush mouth with water. Instantly drink water in small quantities.

Most important symptoms and effects
Symptoms
Toxic if swallowed. Fatal if inhaled. Causes skin irritation. Causes serious eye damage. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed
Notes to Physician
Stomach Flush with gastroscope. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Water. Foam.

Unsuitable Extinguishing Media
Carbon dioxide (CO2).

Specific Hazards Arising from the Chemical
Fire may cause dangerous smoke/gas: Acidified Sodium Chlorite

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Use personal protective equipment as required.

Environmental Precautions
See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment
>Recover product and place in an appropriate airtight container.

Methods for Clean-Up
>Ventilate and clean the spill area with equipment.
>Avoid formation of dust.
>Rest spill residue with soda solution and flush with copious water.

Security rules
>Recover product and place in an appropriate airtight container

7. HANDLING AND STORAGE

Precautions for safe handling
Advice on Safe Handling
Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear respiratory protection. Wear protective
gloves/protective clothing and eye/face protection. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep/store away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Avoid formation of dust during handling/pouring. Do NOT partially use powders; Use entire contents of package.

Handling

> Handling: Keep away from dirt, Store only in designated vessel or container. Follow dosage instructions. Product against humidity.

> Fire and explosion protections: Avoid heat.

> Indications: Keep away from acids, and combustible materials.

Storage

> Storage: Dark and Cool Storage.

> Storage room: Cool, dry, clean and locked, well ventilated.

> Requirements of containers: Useable materials are : E, PP, PVC (UV blocking).

Containers must be dry and clean; clean with air sweep. Containers must be sealable.

> Combined storage: Keep away from metal salts, alkaloids, reducers and combusting material.

Conditions for safe storage, including any incompatibilities

Storage Conditions


Packaging Materials

Useable materials are PE, PP and PVC.

Incompatible Materials


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls

Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Wear goggles.

Skin and Body Protection

Avoid skin contact. Wear protective clothing. When touching clothing immediately rinse with water.

Respiratory Protection

Avoid inhalation of Acidified Sodium Chlorite at any time. Use respiratory equipment.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Keep away from food and beverages. Always wash hands after handling GO₂. Respect the usual standard security procedures for chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Pale Yellow</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Similar to chlorine</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>10 approximately 100g/L water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Boiling Point/Boiling Range  Not determined
Flash Point  Not determined
Evaporation Rate  Not determined
Flammability (Solid, Gas)  Not determined
Upper Flammability Limits  Not determined
Lower Flammability Limit  Not determined
Vapor Pressure  Not determined
Vapor Density  Not determined
Specific Gravity  1.15 g/ Liter
Water Solubility  Unlimited
Solubility in other solvents  Not determined
Partition Coefficient  Not determined
Auto-ignition Temperature  Not determined
Decomposition Temperature  Not determined
Kinematic Viscosity  Not determined
Dynamic Viscosity  Not determined
Explosive Properties  Not determined
Oxidizing Properties  Not determined

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.
Note: Product is fire enhancer (contact with other combustible goods might cause ignition)
Product is oxidative

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
Thermal critical point >180°C (356°F). Product is combustible. Product is oxidative.

Conditions to Avoid
Heat, flames and sparks. Incompatible Materials.
>-Avoid heating reactions
>-Metal salts (Transformation)
>-Reducing Agents (Transformation)
>-Oxidizers (Gas formation)
>-Combustibles (fire Danger)

Incompatible Materials

Hazardous Decomposition Products
None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact  Causes serious eye damage.
Skin Contact  Corrosive. Causes skin irritation.
Inhalation  Fatal if inhaled.
Ingestion

Toxic if swallowed. Corrosive injuries in mouth and esophagus.

**Component Information**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid Acidified Sodium Chlorite</td>
<td>= 165 mg/kg (Rat)</td>
<td>= 107.2 mg/kg (Rabbit)</td>
<td>= 230 mg/m³ (Rat) 4 h</td>
</tr>
</tbody>
</table>

**Information on physical, chemical and toxicological effects**

**Symptoms**

Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity**

Group 3 IARC components are "not classifiable as human carcinogens".

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid Acidified Sodium Chlorite</td>
<td>7758-19-2</td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legend**

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

- **STOT - single exposure**
  - Causes damage to organs.

- **STOT - repeated exposure**
  - Causes damage to organs through prolonged or repeated exposure.

**Numerical measures of toxicity**

Not determined

---

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

- Kills all known water-borne viruses, bacteria, fungi, algae, mold, spores, giardia, cryptosporidia
- No harmful Disinfection By-products (DBP’s)
- No TM’s, HAA’s, MX, bromides and bromines

**Component Information**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid Acidified Sodium Chlorite</td>
<td>7758-19-2</td>
<td>100 - 500: 96 h Brachydanio rerio mg/L LC50 static 100: 96 h Lepomis macrochirus mg/L LC50 static 100: 96 h Oncorhynchus mykiss mg/L LC50 static</td>
<td>0.026: 48 h Daphnia magna mg/L EC50 0.25 - 0.33: 48 h Daphnia magna mg/L EC50 Flow through 0.012 - 0.018: 48 h Daphnia magna mg/L EC50 Static</td>
<td></td>
</tr>
</tbody>
</table>

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined
13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Waste Name
Soluble, other salts. Waste key number: 133200

California Hazardous Waste Status

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid Acidified Sodium Chlorite</td>
<td>Toxic</td>
</tr>
<tr>
<td>7758-19-2</td>
<td>Ignitable</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

Note
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

> Dangerous product described by transport regulations (GGVS/GGVE/RID/IMDG-Code/ICAO-TI)

DOT
UN/ID No                        UN1908
Proper Shipping Name           Acidified Sodium Chlorite
Hazard Class                    8
Packing Group                   II ADR

IATA
UN/ID No                        UN1908
Proper Shipping Name           Acidified Sodium Chlorite
Hazard Class                    8
Packing Group                   II ADR

IMDG
UN/ID No                        UN1908
Proper Shipping Name           Acidified Sodium Chlorite
Hazard Class                    8
Packing Group                   II ADR

Marine Pollutant
This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid Acidified Sodium Chlorite</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
US Federal Regulations

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid Acidified Sodium Chlorite 7758-19-2</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet