EZOdor B Tablet Safety Data Sheet (SDS)

SAFETY DATA SHEET
EZOdor B Tablet

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Prepared By: EZ Fleet Solutions
Version: 1.0

Section 1: Identification

GHS Product Identifier

Product Name	EZOdor B Tablet
Product Number	EZOC01B01
Brand	EZ Fleet Solutions

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use	Deodorization agent in conjunction with EZOdor A tablet when used as directed.

Supplier's Details

Name	EZ Fleet Solutions
Address	1850 Whitfield Ave Suite 106 Sarasota FL 34243
Telephone	1-855-439-6367
Website	www.ezfleetsolutions.com
Emergency Telephone Number	1-800-424-9300 (CHEMTREC - for spills, leaks, fire, exposure, or accidents)

Section 2: Hazard(s) Identification

Classification of the Substance or Mixture

This product is classified under OSHA HCS 2012 (29 CFR 1910.1200) as follows:

- **Acute Toxicity - Oral:** Category 4
- **Acute Toxicity - Dermal:** Category 3
- **Skin Corrosion/Irritation:** Category 1
- **Serious Eye Damage/Eye Irritation:** Category 1
- **Specific Target Organ Toxicity (Repeated Exposure):** Category 2
- **Hazardous to the Aquatic Environment - Acute Hazard:** Category 2

Label Elements

- **Pictogram(s):**

- **Signal Word:** Danger
- **Hazard Statements:**
  - H302: Harmful if swallowed
  - H311: Toxic in contact with skin
  - H314: Causes severe skin burns and eye damage
  - H318: Causes serious eye damage
  - H373: May cause damage to organs through prolonged or repeated exposure
  - H401: Toxic to aquatic life
- **Precautionary Statements:**
  Prevention:
  - P260: Do not breathe dust/fume/gas/mist/vapors/spray.
  - P264: Wash skin thoroughly after handling.
  - P270: Do not eat, drink or smoke when using this product.
  - P273: Avoid release to the environment.
  - P280: Wear protective gloves/protective clothing/eye protection/face protection.
- **Response:**
  - P312: Call a POISON CENTER/doctor if you feel unwell.
  - P314: Get medical advice/attention if you feel unwell.
  - P321: Specific treatment (see supplemental first aid instructions on this label).
  - P330: Rinse mouth.
  - P363: Wash contaminated clothing before reuse.
  - P301 + P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

    - P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
    - P361 + P364: Take off immediately all contaminated clothing and wash it before reuse.
    - P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
    - P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
    - P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **Storage:**
    - P405: Store locked up.
- **Disposal:**
    - P501: Dispose of contents/container to an approved waste disposal plant in accordance with local, regional, national, and international regulations.

Other Hazards

- **Emergency Overview:** White powder/tablet solid. Corrosive. Toxic by skin contact. Harmful if swallowed. May cause long-term organ damage. Toxic to aquatic life.
- **Hazards Not Otherwise Classified (HNOC):** Reacts with water or moisture to release chlorine dioxide gas, which is toxic if inhaled (may cause respiratory irritation, coughing, shortness of breath, or pulmonary edema) and can form explosive mixtures in confined spaces or at high concentrations.

Section 3: Composition/Information on Ingredients

This product is a mixture. The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of 29 CFR §1910.1200.

Component	CAS No.	EC No.	Concentration (wt %)
Sodium Chlorite	7758-19-2	231-836-6	10-40%

- **Impurities and Stabilizing Additives:** None known.

Section 4: First-Aid Measures

Description of First-Aid Measures

- **General Advice:** Show this SDS to the doctor in attendance. Immediate medical attention is required.
- **Inhalation:** Move victim to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth if the victim ingested or inhaled the substance. If not breathing, give artificial respiration. Consult a physician.
- **Skin Contact:** Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes. Consult a physician if uncomfortable.
- **Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses if present. Consult a physician.
- **Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Call a physician or Poison Control Center immediately.

Most Important Symptoms/Effects, Acute and Delayed

- Substance accumulation may occur and cause concern following repeated or long-term exposure. Symptoms may be delayed.

Indication of Immediate Medical Attention and Special Treatment Needed

- Treat symptomatically. No specific antidote exists for chlorine dioxide exposure. Provide supportive medical care, including immediate removal from the exposure source and decontamination. For inhalation of generated chlorine dioxide gas: Administer humidified supplemental oxygen and monitor for respiratory distress, methemoglobinemia, or pulmonary edema. Bronchodilators may be used for wheezing, and consider corticosteroids for severe cases. Treat methemoglobinemia with methylene blue if confirmed. Consult a poison control center (e.g., 1-800-222-1222 in the US) for guidance.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

- Dry chemical, carbon dioxide, or alcohol-resistant foam.

Unsuitable Extinguishing Media

- Do not use a solid water stream as it may scatter or spread fire.

Specific Hazards Arising from the Chemical

- May emit poisonous fumes. Fire may produce irritating, poisonous, or corrosive gases. Containers may explode when heated. May expand or decompose explosively.

Special Protective Actions for Fire-Fighters

- Wear self-contained breathing apparatus (SCBA) and full protective gear (MSHA/NIOSH approved). Fight fire from a safe distance. Prevent runoff from contaminating water systems.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures

- Ensure adequate ventilation. Remove ignition sources. Evacuate to safe areas. Use PPE. Avoid breathing dust/mist/gas.

Environmental Precautions

- Prevent further leakage. Avoid discharge into the environment.

Methods and Materials for Containment and Cleaning Up

- Contain spill with bunding. Absorb with dry sand or inert absorbent. For large spills, use appropriate containment. Dispose of in accordance with regulations. Use spark-proof tools.

Section 7: Handling and Storage

Precautions for Safe Handling

- Handle in well-ventilated areas. Wear PPE. Avoid contact with skin/eyes. Keep away from heat/sparks/flames. Take measures against static discharge.

Conditions for Safe Storage, Including Any Incompatibilities

- Store in tightly closed containers in a dry, cool, well-ventilated place. Keep away from heat/ignition sources. Store away from incompatible materials and food.

Section 8: Exposure Controls/Personal Protection

Control Parameters

- **Occupational Exposure Limits:**

Component	CAS No.	OSHA	NIOSH			ACGIH
		PEL	REL	STEL	IDLH	TLV
Sodium Chlorite (Solid)	7758-19-2	None	None	None	None	None
Chlorine Dioxide (Gas)	10049-04-4	0.1 PPM	0.1 PPM	0.3 PPM	5 PPM	0.1 PPM

- **Biological Limit Values:** No information available.
- **Monitoring Methods:** Refer to NIOSH methods or OSHA 29 CFR 1910.1000.

Appropriate Engineering Controls

- Ensure use in a well ventilated area.

Individual Protection Measures

- When used according to product instructions no protective equipment is necessary.
- In the event of noncompliant exposure:
    - **Eye/Face Protection:** Tight-fitting safety goggles (NIOSH-approved).
    - **Skin Protection:** Protective gloves (e.g., butyl rubber per US F739). Fire-resistant clothing and antistatic boots.
    - **Respiratory Protection:** Full-face respirator with multi-purpose combination (NIOSH) if limits exceeded.

Section 9: Physical and Chemical Properties

- **Appearance:** White powder/tablet solid
- **Odor:** Odorless, minor chlorine odor
- **Odor Threshold:** No information available
- **pH:** 3-4
- **Melting Point/Freezing Point:** No information available
- **Initial Boiling Point/Boiling Range:** No information available
- **Flash Point:** Not applicable

- **Evaporation Rate:** Not applicable
- **Flammability (Solid, Gas):** No information available
- **Upper/Lower Flammability or Explosive Limits:** No information available
- **Vapor Pressure:** Not applicable
- **Vapor Density:** Not applicable
- **Relative Density:** No information available
- **Solubility(ies):** Reacts with water
- **Partition Coefficient (n-octanol/water):** No information available
- **Auto-Ignition Temperature:** No information available
- **Decomposition Temperature:** No information available
- **Viscosity:** Not applicable
- **Particle Characteristics:** No information available

Section 10: Stability and Reactivity

- **Reactivity:** Contact with incompatibles may cause decomposition.
- **Chemical Stability:** Stable under recommended conditions.
- **Possibility of Hazardous Reactions:** May explode with metal powders if heated/friction. Flammable; may form explosive mixtures.
- **Conditions to Avoid:** Incompatible materials, heat, flame, spark.
- **Incompatible Materials:** Metal powders, ammonia compounds, acids, peroxides, alcohols, etc.
- **Hazardous Decomposition Products:** None under normal conditions; may produce toxic gases in fire.

Section 11: Toxicological Information

Acute Toxicity

Component	CAS No.	LD50 Oral	LD50 Dermal	LC50 Inhalation (4h)
Sodium Chlorite	7758-19-2	165 mg/kg (Rat)	No data	0.23 mg/L (Rat)

- **Skin Corrosion/Irritation:** Causes severe skin burns (Category 1)
- **Serious Eye Damage/Irritation:** Causes serious eye damage (Category 1)
- **Respiratory or Skin Sensitization:** No information available
- **Germ Cell Mutagenicity:** No information available
- **Carcinogenicity:**

Component	IARC	NTP	ACGIH
Sodium Chlorite	Category 3	Not Listed	Not Listed

- **Reproductive Toxicity:** No information available
- **STOT - Single Exposure:** No information available
- **STOT - Repeated Exposure:** May cause damage (Category 2)
- **Aspiration Hazard:** No information available
- **Numerical Measures of Toxicity:**
    - Oral: 574 mg/kg
    - Dermal: 520 mg/kg
    - Inhalation (dust/mist): Not fully calculable due to data gaps; estimated >0.23 mg/L (4h) based on primary component.
- **Interactive Effects:** The primary interactive effect in this mixture involves sodium chlorite and citric acid, which react in the presence of water or moisture to generate chlorine dioxide gas. This reaction can enhance toxicity, leading to acute respiratory irritation, methemoglobinemia, gastrointestinal distress (e.g., vomiting, diarrhea, dehydration), and potential systemic effects upon inhalation or ingestion of the activated product. No significant toxicological interactions are reported for the other components (sodium bicarbonate, calcium chloride, sodium sulphate, magnesium stearate) under normal conditions.

Section 12: Ecological Information

Toxicity

- **Acute Toxicity:**

Component	CAS No.	Fish LC50 (96h)	Crustaceans EC50 (48h)	Algae ErC50 (96h)
Sodium Chlorite	7758-19-2	278 mg/L	0.15 mg/L	1.32 mg/L

- **Chronic Toxicity:** No information available
- **Persistence and Degradability:** No information available
- **Bioaccumulative Potential:** No information available
- **Mobility in Soil:** No information available
- **Other Adverse Effects:** All components do not meet PBT/vPvB criteria per REACH Annex XIII (note: REACH is EU, but relevant for GHS).

Section 13: Disposal Considerations

- **Waste Treatment Methods:** Dispose in accordance with US EPA RCRA (40 CFR 261) and local/state regulations. Recommend incineration. Contaminated packaging: Return to supplier or dispose as hazardous waste.
- **RCRA Waste Codes:** This product is not a listed hazardous waste under RCRA (no F, K, P, or U codes apply to stabilized chlorine dioxide or its components). However, it may exhibit the characteristic of corrosivity (D002) due to its low pH (3-4) and ability to cause severe skin burns and eye damage. It could also potentially exhibit reactivity (D003) if it generates toxic gases (e.g., chlorine dioxide) or decomposes explosively under certain conditions. Waste generators should evaluate the material for all RCRA characteristics (D001 ignitability, D002 corrosivity, D003 reactivity, D004-D043 toxicity) through testing (e.g., TCLP for toxicity) before disposal to determine applicable codes.

Section 14: Transport Information

- **UN Number:** 2923
- **UN Proper Shipping Name:** CORROSIVE SOLID, TOXIC, N.O.S. (Stabilized Chlorine Dioxide)
- **Transport Hazard Class(es):** 8 (Corrosive)
- **Subsidiary Hazard Class:** 6.1 (Toxic)
- **Packing Group:** II
- **Marine Pollutant:** No
- **US DOT (49 CFR):** Hazardous material; follow DOT regulations for labeling and placarding.
- **IATA/ICAO:** Regulated; follow air transport rules.
- **IMDG:** Regulated; follow marine transport rules.
- **Special Precautions:** Segregate from incompatible materials, including acids, oxidizers, foodstuffs, and feed during transport to prevent reactions or contamination. Ensure packaging is secure and compliant with DOT requirements to avoid leaks or spills. In the event of an incident, refer to the Emergency Response Guidebook (ERG) Guide 154 for corrosive and toxic substances (non-flammable, non-gaseous). Special provisions may apply, such as TP33 for portable tanks (filling limits) and CV28 (food precautions and vehicle supervision). The material does not produce large amounts of toxic-by-inhalation gases when spilled in water, but avoid water contact to prevent chlorine dioxide gas generation.

Section 15: Regulatory Information

US Federal Regulations

- **SARA 302/304 (Extremely Hazardous Substances):** Sodium Chlorite (RQ: 100 lbs).
- **SARA 311/312 Hazard Categories:** Acute Health Hazard, Chronic Health Hazard.
- **SARA 313 (TRI Reporting):** Sodium Chlorite (if >1% concentration).
- **CERCLA RQ:** Sodium Chlorite (100 lbs).

- **TSCA Inventory:** All components listed.
- **California Proposition 65:** None of the components (sodium chlorite, sodium bicarbonate, citric acid, calcium chloride, sodium sulphate, or magnesium stearate) are listed on the California Proposition 65 list of chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.
- **Other State Regulations:** Sodium Chlorite (CAS 7758-19-2): Listed on the New Jersey Right-to-Know Hazardous Substance List (code 1689), Massachusetts Right-to-Know Substance List, and Pennsylvania Right-to-Know Hazardous Substance List. Other components (sodium bicarbonate, citric acid, calcium chloride, sodium sulphate, magnesium stearate) are not specifically listed as hazardous substances on these state lists, though general particulate or nuisance dust regulations may apply if airborne.

International Regulations

- All components listed on EINECS, TSCA, DSL, IECSC, etc. (from original).

Section 16: Other Information

- **NFPA Rating:** Health: 3, Flammability: 1, Reactivity: 1, Special: COR
- **HMIS Rating:** Health: 3, Flammability: 1, Physical Hazard: 1, PPE: E
- **References:** Original MSDS, OSHA HCS, GHS Rev. 7.
- **Revision History:** New SDS based on provided data.
- **Disclaimer:** This SDS is based on available data. No warranty is implied. Users should verify suitability.