



Material Safety Data Sheet
SABRECHLOR 25

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SABRECHLOR 25

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2. COMPOSITION (OSHA HAZARDOUS INGREDIENTS)

COMPONENTS	CAS NO.	WT%
Sodium Chlorite	7758-19-2	25.0
Component A	Not Available	1.0

The specific identities of certain components of this formulation are withheld as trade secrets in accordance with 29 CFR 1910.1200

3. HAZARDS IDENTIFICATION

HAZARD SUMMARY

Clear, light yellow liquid with chlorine-like odor. Corrosive! Contain all spills. Non-flammable. See Section 3, 5, 6.

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

EYES: Corrosive, contact causes severe eye burns

SKIN: Corrosive, causes skin burning.

INGESTION: May cause gastroenteritis with any or all of the following symptoms: nausea, vomiting, lethargy, diarrhea, bleeding or ulceration. Acute ingestion of large quantities may also cause anemia due to the oxidizing effects of the chemical.

INHALATION: Breathing sodium chlorite solution or mist into the lungs can cause a build-up of fluid in the lungs (pulmonary edema) and death. Chlorine dioxide vapors are emitted when sodium chlorite contacts acids or chlorine. If these vapors are inhaled, pulmonary edema is delayed, up to 48-72 hours.

ROUTES OF ENTRY: Skin, eye, inhalation, and ingestion

TARGET ORGANS: Skin, eyes, upper respiratory tract.

CHRONIC HEALTH EFFECTS

CARCINOGENICITY: This product does NOT contain compounds known to be carcinogens, i.e., cause cancer, according to NTP, IARC, or OSHA.

MUTAGENICITY: Sodium chlorite has been evaluated for possible mutagenic effects in several laboratory tests. Sodium chlorite tested positive in Ames Salmonella reverse mutation assay without metabolic activators and causes chromosomal aberrations in an in vitro Chinese hamster fibroblast cell line without metabolic activators. Sodium chlorite also tested positive in the mouse micronucleus assay when administered intraperitoneally (directly into the body cavity), but was not mutagenic when administered orally. The significance of these test results for human health is unclear because the oxidizing effects of the chlorite or salting effects of sodium may significantly affect the ability of the tests to accurately detect mutagens.

TERATOGENICITY: No information regarding teratogenicity is available for the product as a whole or for components of this product.

REPRODUCTIVE TOXICITY: Sodium chlorite has not been found to be teratogenic in studies in which animals have been exposed to up to 100 ppm in the drinking water. Male rats repeatedly exposed to concentration of 100 ppm or greater in the drinking water have shown slight effects on sperm motility. No effects were observed at 10 ppm and no effects were observed on fertility rate, histology of the male reproductive system or conception rate of animals exposed at 10 ppm or higher.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Deficiency in glucose-6-phosphate dehydrogenase (G6PD) enzyme and other red blood cell diseases.

4. FIRST AID MEASURES

EYES: In case of contact, immediately flush eyes with water for at least 15-20 minutes. Lift upper and lower lids and rinse well under them. Get immediate medical attention.

SKIN: Immediately rinse excess material off skin with large amounts of water; remove contaminated clothing and shoes. Then wash with soap and water. If heavy contamination has occurred, then discard the clothing in a manner which limits further exposure. Otherwise, thoroughly clean contaminated clothing and shoes before use. Get medical attention.

INHALATION: Remove from exposure. If individual is not breathing, administer cardiopulmonary resuscitation (CPR) and get immediate medical attention. If individual is breathing, but with difficulty, get medical attention.

INGESTION: Do not induce vomiting. Do not give anything by mouth to an unconscious person. Immediately drink large quantities of milk or water. Get medical attention.

5. FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES: This product is non-combustible.

FLASH POINT: This flash point has not been determined for the product as a whole. The components of this product are not combustible or flammable.

METHOD USED: The flash point has not been determined for the product as a whole. The components of this product are not combustible or flammable.

FLAMMABLE LIMITS: Flammable limits have not been determined for the product as a whole. Flammable limits do not exist for the components of this product.

EXTINGUISHING MEDIA: Use water fog only; not CO₂, halon, or dry chemical.

FIRE & EXPLOSION HAZARDS: Fire may produce irritating or poisonous gases, such as chlorine, chlorine dioxide, and oxides of sodium.

FIRE-FIGHTING EQUIPMENT: Protect personnel from skin and respiratory exposure. Wear self-contained breathing apparatus and personal protective equipment when fighting fires involving this product.

6. ACCIDENT RELEASE MEASURES

LARGE SPILL: Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition, such as flames, sparks, and hot surfaces. Contained spilled liquid with sand or earth. Absorb with non-flammable absorbent material. **Do not allow spills to dry!** Place in a disposal container. Remaining material may be neutralized and collected for disposal. Rinse spill area with large quantities of water. If spilled material contacts acids or chlorine, chlorine dioxide gas, an explosion hazard, will evolve. Vapors may be suppressed by a water fog.

SMALL SPILL: Mop up material immediately and place in a disposal container. Rinse spill area with large amounts of water.

7. HANDLING AND STORAGE

HANDLING: Wear appropriate protective clothing. Avoid prolonged contact with skin and clothing. Avoid breathing vapors. After handling, always wash hands and clothing thoroughly with soap and water.

STORAGE: Store in a cool, dry, well-ventilated place away from heat, cold, chlorine, combustible or other readily oxidizable materials, reducing agents, solvents, sulfur containing compounds, and/or acids. Protect from freezing. Use approved equipment for transportation of drums to avoid puncturing or rupturing. Do not re-use drum or other containers.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use general room ventilation or local exhaust ventilation. If ventilation is not adequate, wear an approved respirator.

SKIN PROTECTION: Wear impervious gloves, boots, and apron.

EYE PROTECTION: Use chemical safety goggles or a full face shield, as well as an eye wash shower and washing facilities near the work area.

EXPOSURE GUIDELINES: Exposure guidelines have not been established for the product as a whole. The following are exposure guidelines for component(s) of this product.

COMPONENT	OSHA PEL-TWA	ACGIH TLV-TWA
None		

ENGINEERING CONTROLS: Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear, light yellow liquid
ODOR:	Chlorine-like odor
BOILING POINT:	Not established
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.25 @ 25°C
MELTING POINT:	Not applicable
% VOLATILE:	Approximately 75%
PH:	11.5-11.7

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID) Stable. Avoid temperature above 100°C (212°F) and direct sunlight.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Avoid contact with acids, chlorine, oxidizing agents, reducing agents, sulfur containing compounds, combustible materials, and solvents.

HAZARDOUS DECOMPOSITION PRODUCTS: Upon contact with acids and chlorine, chlorine dioxide gas and chlorine gas will be evolved.

11. TOXICOLOGICAL INFORMATION

Toxicological information has not been established for this formulation. Toxicological data is listed below for components.

Sodium Chlorite: LD₅₀ (oral) rat: 165 mg/kg
LD₅₀ (oral) mouse: 350 mg/kg
LD₅₀ (oral) guinea pig: 300 mg/kg

12. ECOLOGICAL INFORMATION

The high pH (alkalinity) of undiluted or unneutralized material is harmful to aquatic life.

ENVIRONMENTAL FATE: When spilled on land, some soils are slightly acidic, and therefore chlorine dioxide gas may evolve from the soil.

AQUATIC TOXICITY: Aquatic toxicity data is not available for the produce as a whole. Aquatic toxicity data is available for sodium chlorite.

TL ₅₀ Bluegill:	208 mg/l
LC ₅₀ Bluegill:	265-310 mg/l
TL ₅₀ Rainbow trout:	50.6 mg/l
LC ₅₀ Rainbow trout:	290 mg/l
LC ₅₀ Daphnia:	0.29 mg/l – most sensitive species tested

13. DISPOSAL CONSIDERATIONS

RCRA HAZARD CLASS: D002

WASTE MANAGEMENT INFORMATION: This alkaline material must be neutralized before disposal. Any disposal practice must be in compliance with local, state, and federal laws and regulations (contact local or state environmental agency for specific rules). Do not dump into sewers, on the ground, or into any body of water.

NOTE: Chemical additions, processing, use, or otherwise altering this product may render the disposal considerations invalid, inaccurate, and otherwise inappropriate.

14. TRANSPORT INFORMATION

TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION

FOR DOMESTIC SHIPMENTS

DOT SHIPPING NAME: Chlorite solution
UN ID NO.: 1908
HAZARD CLASS, LABEL, AND PACKAGING GROUP: 8 (Corrosive); II
EMERGENCY RESPONSE GUIDEBOOK NO.: 154

15. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200): According to the OSHA Hazard Communication Standard, this product is considered hazardous because it contains sodium chlorite.

CERCLA/SUPERFUND (40 CFR 117, 302): This product contains the following regulated compounds: None

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, Appendix A): None

SARA 311/312 HAZARD CATEGORY (40 CFR 370.2): Immediate (acute) health, Delayed (chronic) health, Fire hazard.

SARA 313 INFORMATION (40 CFR 372): This product contains the following regulated compounds subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986:

COMPONENTS	CAS NO.	WT%
None		

TOXIC SUBSTANCES CONTROL ACT (TSCA): The ingredients of this product are all on the TSCA inventory list.

CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: Chemicals known to the State of California to cause cancer are NOT present in this product at levels which pose "Significant Risk." [22 CCR 12705 (b)]

16. OTHER INFORMATION

NFPA Rating		HMIS Rating	
Fire	0	Health	3
Health	3	Flammability	0
Reactivity	1	Reactivity	1
Hazard	None	Protection	C ¹

¹ The HMIS Rating is intended to be established by the employer, as the employer is most aware of the employees' use or application of the product, work environment, and available personal protective equipment. This rating is intended for guidance only.

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REASONS FOR ISSUE:

New Document

SUPERSEDES:

N/A

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