



CHLOR OUT

Safety Data Sheet

Emergency 24 Hour Telephone: **CHEMTREC 800.424.9300**


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CHLOR OUT
 Safety Data Sheet (SDS No. 213)

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1	Product Identification:	
1.1.1	Product Name:	CHLOR OUT
1.1.2	CAS # (Chemical Abstracts Service Registry Number):	10102-17-7
1.1.3	EINECS (European Inventory of Existing Commercial Substances):	231-867-5
1.1.4	RTECS (Registry of Toxic Effects of Chemical Substances):	WE6660000
1.1.5	Chemical Name:	Sodium Thiosulfate Pentahydrate
1.1.6	Chemical Formula:	Na ₂ S ₂ O ₃ •5H ₂ O
1.1.7	Synonym:	Sodium hyposulfite, Hyposulphite of soda.
1.2	Recommended Uses:	To lower chlorine levels in swimming pools and spas following super chlorination.
1.3	Company Identification:	Hasa Inc. P. O. Box 802736 Santa Clarita, CA 91355
1.4	Emergency Telephone Number:	CHEMTREC: 1-800-424-9300 (24 hour Emergency Telephone)
1.5	Non-Emergency Assistance:	661-259-5848 (8 AM – 5 PM PST / PDT)

SECTION 2: HAZARD(S) IDENTIFICATION

HAZARD CATEGORY	Serious Eye Damage / Eye Irritation: Category 2B Skin Corrosion / Irritation: Category 2 Acute Toxicity - Inhalation: Category 4
SYMBOLS	
SIGNAL WORD	WARNING
HAZARD STATEMENT	Causes eye irritation. Causes skin irritation. Harmful if inhaled.
PRECAUTIONARY STATEMENTS	Prevention
	Wash hands thoroughly after handling. Wear protective gloves. Avoid breathing dust. Use only outdoors or in a well-ventilated area.
	Response
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If medical advice is needed, have product container or label at hand.

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	Synonym	CAS No.	Approx. Wt.%
Sodium Thiosulfate Pentahydrate	Sodium hyposulfite; Hyposulphite of soda	10102-17-7	> 99%

SECTION 4: FIRST AID MEASURES

4.1	IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
4.2	IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
4.3	IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
4.4	IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE FIGHTING MEASURES

5.1	Flammability:	Nonflammable.
5.2	Auto-Ignition Temperature:	Not applicable.
5.3	Flash Point:	Not applicable.
5.4	Flammable Limits:	Not applicable.
5.5	Extinguishing Media:	Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions..
5.6	Products of Combustion:	Sulfur dioxide, hydrogen sulfide and sodium sulfide residue.
5.7	Fire Hazards in Presence of Various Substances:	Not applicable.
5.8	Special Fire-fighting Procedures:	Use water spray to cool containers exposed to fire. Minimize exposure. Do Not breathe fumes. Contain run-off. In closed spaces, don self-contained breathing apparatus in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Small Spill:	Promptly sweep up or shovel with minimum dusting and place in a plastic bag or an empty container with a cover. Cautiously spray residue with plenty of water.
6.2	Large Spill:	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system. Dispose of according to local and regional authority requirements.

SECTION 7: HANDLING AND STORAGE

7.1	Handling:	Do not breathe dust. Do not get in eyes, on skin, or on clothing.
7.2	Storage:	Store in a cool, dry and well-ventilated area away from incompatible materials. Keep in securely fastened containers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Engineering Controls:	Provide local exhaust if dusty or misty condition exists or if there is a release of sulfur dioxide or hydrogen sulfide gas.		
8.2	Personal Protection:			
	8.2.1 Eyes:	Chemical safety goggles. Do not wear contact lenses.		
	8.2.2 Respiratory:	Dust respirator Be sure to use an approved/certified respirator or equivalent.		
	8.2.3 Skin & Body:	Body covering clothes & boots.		
	8.2.4 Hands:	Protective rubber gloves.		
8.3	Exposure Limits:	Sodium Thiosulfate Pentahydrate	Sulfur Dioxide*	Hydrogen Sulfide*
	8.3.1 OSHA PEL	Not established.	5 ppm	Not established.
	8.3.2 ACGIH STEL	Not established.	5 ppm	15 ppm
	8.3.3 ACGIH TLV	Not established.	2 ppm	10 ppm
		* Sulfur Dioxide may be present as a decomposition product. * Hydrogen Sulfide may be present as a decomposition product.		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance:	Colorless crystalline solid.
9.2	Odor:	Odorless.
9.3	Odor Threshold:	Odorless.
9.4	pH:	6.0 – 8.4 (5% solution)
9.5	Melting Point:	48°C
9.6	Freezing point:	No information available.
9.7	Boiling Point & Boiling Range:	No information available.
9.8	Flash Point:	No information available.
9.9	Evaporation Rate:	No information available.
9.10	Flammability (solid, gas):	Not flammable
9.11	Upper / Lower Flammability or Explosive Limits:	No information available.
9.12	Vapor Pressure:	Not applicable.
9.13	Vapor Density:	Not applicable.
9.14	Relative Density (Specific Gravity):	1.7 – 1.75
9.15	Solubility in Water:	68 g/100 g (@ 20°C
9.16	Partition Coefficient: (n-octanol / water):	No information available.
9.17	Auto-ignition Temperature:	No information available.
9.18	Decomposition Temperature:	No information available.
9.19	Molecular Weight:	248.2 g/mole
9.20	Viscosity:	No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1	Stability:	Stable under normal use and storage conditions.
10.2	Instability Temperature:	No information available.
10.3	Conditions of Instability:	Incompatible materials, moisture.
10.4	Incompatibility:	Acids, oxidizing agents.
10.5	Corrosivity:	Not corrosive in presence of glass.
10.6	Special Remarks on Reactivity:	It is a strong reducing agent and can react with oxidizers. Reacts with acids to release sulfur dioxide. Sodium Thiosulfate pentahydrate dissolves in its own water of hydration; it effloresces in warm dry air. Sodium Thiosulfate pentahydrate loses water at 100° C. It is incompatible with iodine, acids, lead, mercury, and silver salts (e.g. silver nitrate), halogens. Hygroscopic; keep container tightly closed. Protect from moisture.
10.7	Hazardous Polymerization:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Routes of Entry:	Eyes and nose.
11.2	Acute Toxicity (animals):	
	11.2.1 Oral Toxicity: (LD ₅₀)	No data available.
	11.2.2 Dermal Toxicity: (LD ₅₀)	No data available.
	11.2.3 Eye Irritation:	No data available.
11.3	Overexposure Effects on Humans:	
	11.3.1 Ocular:	Causes eye irritation.
	11.3.2 Dermal:	Causes skin irritation.
	11.3.3 Inhalation:	May cause upper respiratory tract and mucous membrane irritation.
	11.3.4 Ingestion:	Sodium Thiosulfate is an agent with a low order of toxicity. Ingestion of large doses may cause gastrointestinal irritation disturbances with nausea, vomiting, abdominal cramping, diarrhea, metabolic acidosis, and hypernatremia. It may result in a cathartic (laxative, purging) effect. May also affect respiration (cyanosis, respiratory stimulation), cardiovascular (hypotension) behavior (ataxia, convulsions)
11.4	Chronic Effects on Humans:	Prolonged or repeated skin contact may allergic dermatitis, and irritation.
11.5	Carcinogenic [Cancer Potential] Information:	
	11.5.1 NTP (National Toxicological Program 6 th Annual Report on Carcinogens):	Not Listed.
	11.5.2 IARC (International Agency for Research on Cancer Monographs, V. 1-100):	Not Listed.
	11.5.3 Proposition 65, California only: (Safe Drinking Water and Toxic Enforcement Act of 1986):	Not Listed.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Ecotoxicity:	Not available.
12.2	Bioaccumulation:	Bioaccumulation is not likely to occur since this material is highly soluble in water.
12.3	Biodegradation:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
12.4	Toxicity of Biodegradation:	Products of degradation may be hazardous. See section 8.3.

SECTION 13: DISPOSAL CONSIDERATIONS

Unused material is not RCRA hazardous waste if discarded.
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

U.S. DOT Classification	Not regulated.
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SECTION 15: REGULATORY INFORMATION

15.1	U.S. Regulations:	
15.1.1	OSHA HAZCOM (Hazard Communication)	This product is considered hazardous under the HAZCOM Standard (29 CFR 1910.1200)
15.1.2	OSHA PSM (Process Safety Management)	Not regulated under PSM Standard (29 CFR 1910.119)
15.1.3	EPA FIFRA (Federal Insecticide, Fungicide and Rodenticide Act)	Not regulated as a pesticide.
15.1.4	EPA EPCRA (Emergency Planning and Community Right-to-Know Act)	Not regulated.
15.1.5	EPA TSCA (Toxic Substance Control Act)	Listed on the inventory.
15.1.6	EPA RCRA (Resource Conservation and Recovery Act)	This material does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33.
15.1.7	EPA RMP (Risk Management Plan)	Not regulated. (40 CFR 68.130)
15.2	State of California Regulations:	
15.2.1	Prop 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):	Not Listed.
15.2.2	CalARP (California Accidental Release Prevention):	Not regulated.
15.2.3	CDPR (California Department of Pesticide Regulation):	Not regulated.
15.3	Canada Regulations:	
15.3.1	WHMIS (Workplace Hazardous Materials Information System):	No information.
15.3.2	DSL (Domestic Substances List)	The substance is specified on the DSL.
15.4	International Inventory:	
15.4.1	AICS (Australian Inventory of Chemical Substances):	On inventory or in compliance with inventory.
16.5.1	KECI (Korean Existing Chemicals Inventory):	On inventory or in compliance with inventory.
16.5.2	PICCS (Philippine Inventory of Chemicals and Chemical Substances):	On inventory or in compliance with inventory.
16.5.3	IECSC (Inventory of Existing Chemical Substances in China):	On inventory or in compliance with inventory.
16.5.4	NZIoC (New Zealand Inventory of Chemicals):	On inventory or in compliance with inventory.

SECTION 16: OTHER INFORMATION

16.1	HMIS III (Hazardous Materials Identification System):		
	16.1.1	HEALTH	2
	16.1.2	FLAMMABILITY	0
	16.1.3	PHYSICAL HAZARD	0
	16.1.4	PERSONAL PROTECTION	See Section 8.
16.2	NFPA 704 (National Fire Protection Association):		
	16.2.1	HEALTH	1
	16.2.2	FLAMMABILITY	0
	16.2.3	INSTABILITY	0
	16.2.4	SPECIAL	None
16.3	International Fire Code / International Building Code:		No information.
16.4	ANSI (American National Standards Institute):		
	16.4.1	Hazardous Industrial Chemicals - MSDS-Preparation:	Complies with ANSI Z400.1 – 2004.
	16.4.2	Hazardous Industrial Chemicals - Precautionary Labeling:	Complies with ANSI Z129.1 – 2006.



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