

HASACHLOR

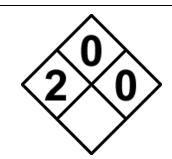
Material Safety Data Sheet

12.5% Sodium Hypochlorite

Emergency 24 Hour Telephone: CHEMTREC 800.424.9300

Corporate Headquarters: Hasa Inc.

23119 Drayton Street
Saugus, California 91350
Telephone • 661.259.5848
Fax • 661.259.1538



IDENTIFICATION OF PRODUCT		
Product Name: HASACHLOR		
Common Chemical Names:	Hypochlorite solution, sodium hypochlorite	
Chemical Names of Ingredients:	Sodium hypochlorite, water	
Chemical Family:	Inorganic halogen compound	
CAS Registry Number:	7681-52-9	
Empirical Formula:	NaOCI	
Molecular Weight:	74.45	

PHYSICAL AND CHEMICAL PROPERTIES			
Vapor Pressure:	12.1 mm Hg. at 20°C	Flash Point: Not Applicable.	
Weight/Gallon:	10.0 lbs. (4.54 kg.)	pH:	11.2 – 11.4
Density [liquid]:	1.20 at 20°C (68°F)	Odor:	Slight Bleach
Bulk Density:	Not Applicable.	Boiling Point:	Decomposes
Melting Point:	Not Applicable.	Freezing Point: -20 Degree Fahrenheit	
Physical State:	Liquid Solution	Color:	Straw Yellow
Solubility in Water:	Complete	Stability:	Stable

PHYSICAL HAZARDS		
Potential for Fire:	None. Nonflammable and noncombustible liquid.	
Potential for Explosion:	None. Nonflammable and noncombustible liquid.	
Reactivity:	Violent reaction with amines, ammonium aldehyde, ammonium carbonate, aziridine, methanol, phenylacetonitrile, ammonium nitrate, ammonium oxylate, ammonium phosphate, cellulose, ethylene imine. Do not mix acids, aqua ammonia, or other organic or inorganic chemicals with this product.	
Extinguishing Media:	N/A	
Fire Fighting Procedures:	N/A	

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HEALTH HAZARDS		
Signs and Symptoms of Exposure:	Eye and skin irritation. Chemical burns to broken skin.	
Medical Conditions Aggravated by Exposure:	No data available.	
Oral [ingestion] LD ₅₀ :	No data available.	
Dermal [skin absorption] LD ₅₀ :	No data available.	
Inhalation [breathing] LC ₅₀ :	No data available.	
Eye Irritation:	Irritating. May cause eye damage.	
Skin Irritation:	Mild irritation. Not considered to be a skin sensitizer.	
OSHA PEL:	None established.	
ACGIH TLV/TWA:	None established.	

POTENTIAL ROUTE [S] OF ENTRY		
Inhalation [Breathing]:	halation [Breathing]: Unlikely to occur. Vapor may cause irritation to upper respiratory tract.	
Dermal [Skin]:	Contact with broken skin may cause burning, blistering, and tissue destruction if not washed off immediately.	
Eyes:	Corrosive to eyes.	
Ingestion:	Not anticipated. May cause severe chemical burns to esophagus and to stomach lining.	

CARCINOGENIC [CANCER POTENTIAL] INFORMATION		
National Toxicological Program [NTP] Sixth Annual Report on Carcinogens:		
International Agency for Research on Cancer [IARC] Monographs, V. 1-53, Supps. 1-8:		
Listed by Federal OSHA as Carcinogens:		

Safe Drinking Water and Toxic Enforcement Act of 1986 [Proposition 65, California only]:

Small quantities – less than 100 ppm (parts per million) – of impurities, including bromates, may be found in all chlorinating products, including this product. Bromates are derived from bromides, which are present in sodium chloride (table salt) from which chlorine is manufactured. Additional small quantities of bromates may be generated during the disinfection process. Bromates are known by the State of California to cause cancer when administered by the oral (drinking or ingesting) route. Read and follow label directions and use care when handling or using this product. The US Environmental Protection Agency has established a maximum contaminant level (MCL) for bromates in drinking water at 10 ppb (parts per billion). Application of this product in accordance with label directions at use dilution will not exceed this level.

This warning is provided pursuant to Proposition 65, the Safe Drinking Water and Toxic Enforcement act of 1986, Chapter 6.6 of the California Health and Safety Code, which requires the Governor of California to publish a list of chemicals "known to the state to cause cancer or reproductive toxicity." This list is compiled in accordance with the procedures established under the proposition, and can be obtained on the internet from California's Office of Environmental Health Hazard Assessment at http://www.oehha.ca.gov. There are over 700 chemical substances on this list.

GENERAL PRECAUTIONS FOR SAFE USE AND HANDLING

Open containers carefully. Sodium Hypochlorite solutions are packaged with vented closures. Do not use containers which are leaking or show evidence of having leaked. Mix only with water. Do not mix with other chemicals. Use clean, dry utensils when mixing. Do not discharge this product or mixtures of this product into lakes, streams, ponds, bays, estuaries or the ocean. Sodium Hypochlorite is toxic to aquatic organisms at very low levels.

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PERSONAL PROTECTION AND HYGIENE

Wear goggles or face shield and rubber gloves when handling. Remove and wash contaminated clothing before reuse. Wash hands after handling.

CLEAN-UP OF SPILLS

Store this product in a cool dry area away from sunlight and heat to avoid deterioration. In case of spill flood area where spill occurred with large quantities of water. With permission from local authorities dilute product may be flushed to sanitary sewer. Product may also be absorbed with sand or diatomaceous earth. Absorbed products must be disposed of in accordance with applicable Federal State and/or local regulations. Contact HASA Inc. for guidance.

FIRST AID		
Eye Contact: Flush with water. Remove contact lenses [if applicable]. Hold eyelids open. Continue flushing with water for 15 minutes. Get prompt medical attention.		
Skin Contact:	Wash affected area with soap and water for 15 minutes. Get medical attention.	
Ingestion [swallowing]:	Drink large quantities of water. DO NOT give vinegar or other acids. DO NOT induce vomiting. Get prompt medical attention.	

FEDERAL/STATE LISTS/REGISTRATION/S/REPORTING REQUIREMENTS		
CERCLA Hazardous Substance [Section 1010 [4], P.L. 96-510]: RQ=100 lbs		
	[80 gallons for 12.5% solution]	
Extremely Hazardous Substance [40 CFR 355, Appendix A]: Not listed.		
Pesticide Product 7 U.S.C. 136 et seq.:	Registered as a pesticide product by	
·	Federal EPA.	
Toxic Substance under TSCA:	Not reported.	
Pesticide Product [various State Laws]:	Registered as pesticide product in states where marked.	

MATERIAL CLASSIFICATION		
OSHA Hazard Communication Standard, Department of Labor,	Irritant.	
Occupational Safety and Health Division, 29 CFR 1910.1200:		

Hazardous Materials Transportation Regulations, Department of Transportation (Federal) 49 CFR 172.101		
Proper Shipping Description [1 gallon or less]:	Consumer Commodity, ORM-D	
Proper Shipping Description [greater than 1 gallon]: Hypochlorite Solutions, 8, UN1791, P.O.		

National Fire Protection Association NFPA 704 [1990]:	2-0-0
BOCA National Fire Prevention Code/National Building Code [1999 editions]:	Irritant
Standard Fire Prevention Code/Standard Building Code [1997 editions]:	Irritant
Uniform Fire Code/Uniform Building Code [1997 editions]:	Irritant
Uniform Fire Code Standards 79-3, Uniform Fire Code, V. II [1997 edition]:	2-0-0

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RETURNABLE CONTAINERS

Returnable (deposit) containers must be resealed and the contents drained therefrom prior to return to the distributor or manufacturer for credit. Do not offer leaking or damaged containers for transportation. Call HASA, Inc. or your distributor for instructions.

<u>Please Note</u>: The information contained herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge and belief. NO WARRANTY OR GUARANTEE, expressed or implied, is made regarding the product performance, product stability, or as to any other condition of use, handling, transportation, and storage. Customer use, handling, transportation, and storage may involve additional safety and/or performance considerations. Our technical personnel will be happy to respond to questions regarding safe handling, storage, transportation and use procedures. The safe handling, storage, transportation and use procedures remain the sole responsibility of the customer. No suggestions for handling, storage, transportation or use are intended as or to be construed as recommendations which may infringe on any existing patents or violate any Federal, State, and/or local law and/or regulation, ordinance, standard, etc.. This Material Safety Data Sheet has been prepared by HASA, Inc. staff from test reports and other information available in the public domain.

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