

MULTI-CHLOR

Safety Data Sheet

12.5% Sodium Hypochlorite (chlurine)

Emergency 24 Hour Telephone:

CHEMTREC 800.424.9300

Corporate Headquarters:

Hasa Inc.

P.O. Box 802736 Santa Clarita, CA 91355 Telephone • 661.259.5848

Fax

• 661.259.1538

		SECTION 1:	: IDENTIFICATION
1.1	Prod	uct Identification:	
	1.1.1	Product Name:	MULTI-CHLOR
	1.1.2	Service):	7681-52-9
	1.1.3	of Chemical Substances):	NH3486300
	1.1.4	EINECS (European Inventory of Existing Commercial Substances):	231-668-3
	1.1.5		231-668-3
		Synonym:	Bleach, Hypo, Hypochlorite, Liquid Chlorine Solution
		Chemical Name:	Sodium Hypochlorite
		Chemical Formula:	NaOCI
1.2	Recor	mmended Uses:	Sanitizer of swimming pool and spa water.
1.3	Comp	pany 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					
HEALTH HAZARD	Skin corrosion / irritation: Serious Eye damage / Eye		Category 1 Category 1		
	Irritation		Calegory 1		
	Specific target organ toxicity, single exposure		Category 3 (irritation)	respiratory tract	
ENVIRONMENTAL HAZARD	Hazardous to the aquatic environment, acute hazard		Category 1		
PHYSICAL HAZARD	Corrosive to metals.		Category 1		
SYMBOLS	TE	<		***	
SIGNAL WORD		DAN	GER		
HAZARD STATEMENT	May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life.				
PRECAUTIONARY	Prevention			no to aquatio mot	
STATEMENT	Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep only in original container. Avoid release to the environment.				
	Response				
	If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing.				
	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse.				
	Absorb spillage to prevent material damage. Collect spillage.				
	Storage and Disposal				
	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container. Dispose of container/contents in accordance with local, regional,				
	national, international regula	ations as	specified.	local, regional,	

	SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS				
	Ingredient	Synonyms	CAS No.	Weight %	
3.1	Sodium Hypochlorite	Bleach	7681-52-9	12.5%	
3.2	Sodium Hydroxide	Caustic Soda	1310-73-2	0.2%	

		SECTION 4: FIRST AID MEASURES
4.1	IF IN EYES	 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	CLOTHING	 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	 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	 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
go	ave the product co ping for treatment. ` formation.	ntainer or label with you when calling a poison control center or doctor, or You may also contact 1-800-424-9300 for emergency medical treatment

E 1	Eleck	Daint	RE FIGHTING MEASURES
***********		Point:	Not applicable.
	Flammability:		Nonflammable and noncombustible.
5.3	Auto-	-Ignition Temperature:	Not applicable.
		ucts of Combustion:	Not pertinent.
		lazards:	May decompose, generating irritating chlorine gas.
5.6		osion Hazards:	Not explosive.
5.7			
	5.7.1	Extinguishing Media:	Water fog. Foam. Dry chemical powder. Carbon dioxide.
	5.7.2	Small Fires:	Use carbon dioxide, or water spray.
	5.7.3	Large Fires:	Use flooding quantities of water as fog.
5.8	Speci	ial Remarks on Fire Hazards:	Do not use Mono Ammonium Phosphate (MAP) fire extinguishers. Such use may cause explosion with release of toxic gases.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

	SEC	CTION 6: ACCIDENTAL RELEASE MEASURES
6.1		Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Large Spill:	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.
6.3	Personal Precautions, Protective Equipment & Emergency Procedures:	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Absorb spillage to prevent material damage. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.
6.4	Environmental Precautions:	Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major releases.

		SECTION 7: HANDLING AND STORAGE
7.1		 Avoid contact with skin or eyes. Do not ingest. Avoid inhalation of vapor or mist. Wear protective equipment if necessary. Mix only with water in accordance with label directions. Mixing this product with ammonia, acids, detergents, etc or with organic materials, e.g. feces, urine, etc. will release chlorine gas, which is irritating to eyes, lungs, and mucous membranes.
7.2	Hygiene Measures:	 Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. While handling this product, avoid eating, drinking or smoking.
7.3	Storage:	 Do not freeze. Store in a cool, shaded outdoor area. Inside storage should be in a cool, dry, well-ventilated area. To maintain hypochlorite strength, do not store in direct or heated indoor areas. Keep in original vented container. Keep container closed when not in use. Do not store adjacent to chemicals that may react if spillage occurs. If closed containers become heated, vent to release decomposition products (mainly oxygen under normal decomposition).

	Pers 8.2.1	onal Protection: Eye / Face Protection: Skin Protection:	Local exhaust ventilation to STEL (Short Term Exposur chlorine. Wear safety glasses, goggl	e Limit) of 1 ppm as	
	8.2.1	Eye / Face Protection:	Wear safety glasses, goggl		
			Wear safety glasses, goggl		
	8.2.2	Skin Protection:	prevent eye contact.	es or face shield to	
			Wear appropriate chemical resistant protective clothing and chemical resistant gloves to preven skin contact. Butyl rubber, Neoprene, or Nitrile Gloves should be worn when handling this material. Wear chemical resistant clothing such a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse.		
	8.2.3 8.2.4	Respiratory Protection: Other Safety Equipment:	Avoid breathing vapor or mi exposure limits are exceeded NIOSH approved respirator appropriate to the material a Full facepiece equipment is used, replaces need for face goggles. For emergency and where exposure limit may be exceeded, use an approved pressure, self-contained bree	ist. When airborne ed (see below), use y protection equipment and/or its components recommended and, if e shield and chemical d other conditions e significantly I full face positive-eathing apparatus.	
			Eye wash facility and emergency shower should be in close proximity.		
.3	Exposure Limits:		Sodium Hypochlorite	Chlorine*	
	8.3.1	AIHA (American Industrial Hygiene Association) / WEEL (Workplace Environmental Exposure Level guides) 2010	2 mg/m³: 15 minute. (Short-term time weighted average)	Not established	
	8.3.2	ACGIH (American Conference of Governmental Industrial Hygienists) TWA (Time Weighted Average)	Not established.	0.5 ppm	
8	8.3.3	ACGIH STEL (Short Term Exposure Limit)	Not established. 1 ppm		
8	8.3.4	OSHA PEL (Permisible Exposure Limit)	Not established. 0.5 ppm		
8	8.3.5	ACGIH Ceiling	Not established.	Not established	
	8.3.6	NIOSH (National Institute for Occupational Safety & Health) IDLH (Immediate Danger to Life & Health)	Not established.	10 ppm	
-	8.3.7	OSHA STEL (Short Term Exposure Limit)	Not established.	1 ppm as Cl ₂	
	3.3.8	NIOSH (15 min. ceiling) rine is unlikely to be present as a dec	Not established.	0.5 ppm	

	SECTION 9: PHYSICA	L AND CHEMICAL PROPERTIES
9.1	Appearance:	Greenish yellow liquid.
9.2	Odor:	Pungent.
9.3	Odor Threshold:	0.9 mg/m³.
9.4	pH:	11.2 – 11.4 (1% solution)
9.5	Melting Point:	Not pertinent.
9.6	Freezing point:	-23.3°C (-10°F)
9.7	Boiling Point & Boiling Range:	Decomposes @ 110 °C (230 °F)
9.8	Flash Point:	No information available.
9.9	Evaporation Rate:	No information available.
9.10		Not flammable.
9.11	Upper / Lower Flammability or Explosive Limits:	No information available.
9.12	Vapor Pressure:	12.1 mm Hg @ 20℃ (68℉)
	Vapor Density:	2.61 (air=1)
9.14	Relative Density (Specific Gravity):	1.2 g/mL or 10 lb/gallon @ 20 ℃ (68 °F)
9.15	Solubility in Water:	Mixes infinitely with water.
9.16	Partition Coefficient: (n-octanol / water):	No information available.
9.17	Auto-ignition Temperature:	No information available.
9.18	Decomposition Temperature:	Decomposes @ 110 °C (230 °F)
9.19	Molecular Weight:	74.5 g/mole
9.20	Viscosity:	1.75 - 2.50 centipoises (varies with temperature)

10.1	SECTION 1	: STABILITY AND REACTIVITY
10.1	Stability:	Stable under normal conditions of storage, handling, and use
10.2	Instability / Decomposition Temperature:	All bleach decomposition is dependant on temperature. For any given temperature, the higher the strength, the faster it decomposes. In summary, for every 10°C increase in storage temperature, the sodium hypochlorite will decompose at an increased rate factor of approximately 3.5.
10.3	Conditions of Instability:	High heat, ultraviolet light.
10.4	Incompatibility with Various Substances:	Oxidizing agents, acids, nitrogen containing organics, metals, iron, copper, nickel, cobalt, organic materials, and ammonia.
10.5	Corrosivity:	Corrosive to metals.
10.6	Special Remarks on Reactivity:	Rate of decomposition increases with heat. May develop chlorine if mixed with acidic solutions.
10.7	Special Remarks on Corrosivity:	None.
10.8		Will not occur.

	SECTION 11: TO	OXICOLOGICAL INFORMATION	
11.1	Routes of Entry:	Eyes, skin, ingestion, dermal absorption.	
11.2	The state of the s	, and a second contract about phone	
	11.2.1 Oral Toxicity (LD50):	3-5 g/kg (rat)	
	11.2.2 Dermal Toxicity (LD50):	>2 g/kg (rabbit)	
	11.2.3 Primary Eye Irritation:	Corrosive	
	11.2.4 Primary Skin Irritation:	Corrosive	
	11.2.5 Inhalation Toxicity (LC ₅₀):	No data available.	
	Chronic Effects (Human Risk Assessment):	Based on the toxicity profile and exposure scenarios for sodium hypochlorite, EPA concludes that the risks from chronic and subchronic exposure to low levels of these pesticides are minimal and without consequence to human health.	
11.4	Tolerance Requirement:	Exempt (EPA document "Index to Pesticide Chemical Names, Part 180 Tolerance Information, and Food and Feed Commodities (by Commodity)" July 2010	

1 1 1 1 1 1		SECT	ION 12: ECOLOGICAL INFORMATION	
12.1	Ecoto	xicity:	Sodium hypochlorite is low in toxicity to avian wildlife, but it is highly toxic to freshwater fish and invertebrates.	
	12.1.1	Fish Toxicity:	Atlantic Herring (clupea harengus) LC ₅₀ = 0.033 - 0.097 mg/l/96 hr, flow through bioassay (pH: 8) Shiner Perch (cymatogaster aggregata) LC ₅₀ = 0.045 - 0.098 mg/l/96 hr, flow through bioassay (pH: 8) Three Spine Stickleback (gasterosteus aculeatus) LC ₅₀ = 0.141 - 0.193 mg/l/96 hr, flow through bioassay (pH: 8) Pink Salmon (oncorhynchus gorbuscha) LC ₅₀ = 0.023 - 0.052 mg/l/96 hr, flow through bioassay (pH: 8) Coho Salmon (oncorhynchus kisutch) LC ₅₀ = 0.026 - 0.038 mg/l/96 hr, flow through bioassay (pH: 8) English Sole (parophrys vetulus) LC ₅₀ = 0.044 - 0.144 mg/l/96 hr, flow through bioassay (pH: 8) Fat Head Minnow (pimephales promelas) LC ₅₀ = 0.22 - 0.62 mg/l/96 hr, flow through bioassay (pH: 7)	
	12.1.2	Invertebrate Toxicity:	Water Flea (ceriodaphnia sp. 0) LC ₅₀ = 0.006 mg/l/24 hr Water Flea (daphnia magna) LC ₅₀ = 0.07 - 0.7 mg/l/24 hr Water Flea (daphnia magna) LC ₅₀ = 2.1 mg/l/96 hr Fresh Water Shrimp (gammarus fasciatus) LC ₅₀ = 0.4 mg/l/96 hr No common name (nitocra spinipes) LC ₅₀ = 0.40 mg/l/96 hr Grass Shrimp (palaemonetes pugio) LC ₅₀ = 0.52 mg/l/96 hr	
12.2	Persis	tence:	No data available.	
12.3	Enviro	nmental Fate:	In fresh water, sodium hypochlorite breaks down rapidly into non-toxic compounds when exposed to sunlight. In seawater, chlorine levels decline rapidly; however, hypobromite (which is acutely toxic to aquatic organisms) is formed. EPA believes that the risk of acute exposure to aquatic organisms is sufficiently mitigated by precautionary labeling and National Pollutant Discharge Elimination System (NPDES) permit requirements.	
12.4	Biocor	ncentration:	This material is not expected to bioconcentrate in organisms.	
12.5	Biodeg	gradation:	This material is inorganic and not subject to biodegradation.	

SECTION 13: DISPOSAL CONSIDERATIONS

Do not contaminate food or feed by storage, disposal, or cleaning of equipment. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. This product can be neutralized with sodium bisulfite, sodium thiosulfate, sodium sulfite. Do not confuse these products with sulfates or bisulfates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination system (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not contaminate water containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Dispose of in accordance with all applicable local, County, State, and Federal regulations.

14.1	SECTION 14: TRANSPORT INFORMATION Inside containers 1.3 gallons or less.				
		DOT Classification:	Consumer Commodity.		
		DOT Hazard Class:	ORM-D.		
	14.1.3	Marking:	Consumer Commodity, ORM-D.		
	14.1.4	Marine Pollutant:	Not listed in Appendix B of the Hazardous Material Table.		
	14.1.5	Deposit Container Returns:	RESIDUE: LAST CONTAINED CONSUMER COMMODITY ORM-D.		
14.2	Inside containers or single containers exceeding 1.3 gallons.				
	14.2.1	DOT Classification:	Hypochlorite Solutions.		
	14.2.2	DOT Hazard Class:	8, UN1791, P.G. III.		
	14.2.3	Label:	Corrosive 8.		
	14.2.4	Deposit Container Returns:	RESIDUE: LAST CONTAINED, UN 1791, HYPOCHLORITE SOLUTIONS, 8, PGIII,		
14.3	Reportable Quantity (RQ): 100 lb (45.4 kg) or 80 gallons (based on 12.5% ac ingredient)				
14.4					

Materials of Trade. The regulations that apply to MOTs are found in 49 CFR § 173.6. This information is not intended to convey all specific regulatory or operational requirements / information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

151	SECTION 15: REGULATORY INFORMATION						
15.1	U.S. Regulations:						
		15.1.1 OSHA HAZCOM (Hazard Communication)		This material is considered hazardous under the HAZCOM Standard (29 CFR 1910.1200)			
		OSHA PSM (Process Safety Management)		ated under P	SM Standard (29 CFR 1910).119)	
		EPA FIFRA (Federal Insecticide, Fungicide and Rodenticide Act)		. No. :10897- ed pesticide i	26 under 40 CFR 152.10)		
		EPA TSCA (Toxic Substance Control Act)	All compo	onents are list (b): This prod	ed or exempted. uct is not subject to export		
		EPA CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)	Reportab (based or	le Quantity (F n 12.5% activ	(Q): 45.4 kg (100 lbs) or 80 e ingredient).	gallons	
		EPA RMP (Risk Management Plan)	Not listed	. (40 CFR 68	130)		
15.2	State	of California Regulations:					
111111111111111111111111111111111111111		Bromates are derived from bromide which chlorine is manufactured. Adduring the disinfection process. Brocancer when administered by the o	dditional sm omates are	all quantities known by the	of bromates may be general State of California to cause	e generated to cause follow label mental promates in dance with label his Health and licals "known to rdance with the met from ehha.ca.gov.	
	15.2.3	directions and use care when hand Protection Agency has established drinking water at 10 ppb (parts per directions at use dilution will not extend the State to cause cancer or reproduced procedures established under the part (California's Office of Environmental CDPR (California Department of Part Calarre (California Accidental Rel Program)	lling or using a maximum billion). Ap ceed this leto Proposition or Court to the coroposition, I Health Hazesticide Research	g this product n contaminant plication of th vel. on 65, Chapte california to po ity." This list and can be o zard Assessm gulation)	route. Read and follow lab. The US Environmental level (MCL) for bromates in sproduct in accordance with the factor of the California Health liblish a list of chemicals "kn is compiled in accordance with the factor of the internet from the intern	n th label h and lown to with the gov.	
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		SECTION 16: OTHE	RINFORMATION				
16.1	HMIS III (Hazardous Materials Identification System):						
	16.1.1	HEALTH	2	The state of the s			
	16.1.2	FLAMMABILITY	0				
	16.1.3	PHYSICAL HAZARD	1				
	16.1.4	PERSONAL PROTECTION	See Section 8.				
16.2	NFPA 704 (National Fire Protection Association):						
	16.2.1		2				
	16.2.2	FLAMMABILITY	0				
	16.2.3	INSTABILITY	0	200			
	16.2.4	SPECIAL	None				
16.3	International Fire Code / International Building Code:		Irritant.				
16.4	ANSI (American National Standards Institute):						
		Hazardous Industrial Chemicals - SDS-Preparation:	Complies with ANS	l Z400.1 – 2004.			
	16.4.2 Hazardous Industrial Chemicals - Precautionary Labeling:		Complies with ANSI Z129.1 – 2006.				

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