



## **MULTI-CHLOR**

12.5% Sodium Hypochlorite

## **Safety Data Sheet**

Emergency 24 Hour Telephone:

Corporate Headquarters:

CHEMTREC 800.424.9300

Hasa Inc. P.O. Box 802736 Santa Clarita, CA 91355 Telephone • 661.259.5848 Fax • 661.259.1538

		SECTION 1:	IDENTIFICATION
1.1	Produ	ct Identification:	
	1.1.1	Product Name:	MULTI-CHLOR
	1.1.2	<b>CAS #</b> (Chemical Abstracts Service):	7681-52-9
	1.1.3	<b>RTECS</b> (Registry of Toxic Effects of Chemical Substances):	NH3486300
	1.1.4	<b>EINECS</b> (European Inventory of Existing Commercial Substances):	231-668-3
	1.1.5	EC Number:	231-668-3
	1.1.6	Synonym:	Bleach, Hypo, Hypochlorite, Liquid Chlorine Solution
	1.1.7	Chemical Name:	Sodium Hypochlorite
	1.1.8	Chemical Formula:	NaOCI
1.2	Recor	nmended Uses:	Sanitizer of swimming pool and spa water.
1.3	Comp	any Identification:	Hasa Inc.
			P. O. Box 802736
			Santa Clarita, CA 91355
1.4	4 Emergency Telephone Number:		CHEMTREC
			1-800-424-9300
			(24 hour Emergency Telephone)
1.5	Non-E	Emergency Assistance:	661-259-5848
			(8 AM – 5 PM PST / PDT)

SE	CTION 2: HAZARD(S) ID	ENTIFICATION
HEALTH HAZARD	Skin corrosion / irritation:	Category 1
	Serious Eye damage / Eye Irritation	Category 1
	Specific target organ toxicity, single exposure	Category 3 (respiratory tract irritation)
ENVIRONMENTAL HAZARD	Hazardous to the aquatic environment, acute hazard	Category 1
PHYSICAL HAZARD	Corrosive to metals.	Category 1
SYMBOLS		
SIGNAL WORD		DANGER
HAZARD STATEMENT		auses severe skin burns and eye y irritation. Very toxic to aquatic life.
PRECAUTIONARY	F	Prevention
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	
	breathing. If on skin (or hair): Take off imm Rinse skin with water/shower. several minutes. Remove conta Continue rinsing. Immediately of contaminated clothing before re	resh air and keep comfortable for mediately all contaminated clothing. If in eyes: Rinse cautiously with water for act lenses, if present and easy to do. call a poison center/doctor. Wash euse.
	Absorb spillage to prevent material damage. Collect spillage.	
		ge and Disposal
	locked up. Store in corrosive re Dispose of container/contents	in accordance with local, regional,
	national, international regulatio	ons as specified.

	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	S S	
4.1	IF IN EYES	• Hold eye open and rinse slowly and gently with water for 15-20 minutes.	<b>MUL</b> Safety	
		• Remove contact lenses, if present, after the first 5 minutes, then continue		
		rinsing eye.	. <b>TI-</b> Data	
		<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>		
4.2	IF ON SKIN OR	<ul> <li>Take off contaminated clothing.</li> </ul>	P P	
	CLOTHING	<ul> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> </ul>	heet	
		<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>		
4.3	IF INHALED	Move person to fresh air.	(SDS	
		• If person is not breathing, call 911 or an ambulance, then give artificial		
		respiration, preferably mouth-to-mouth if possible.	No.	
		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.	108)	
		<ul> <li>Have person sip a glass of water if able to swallow.</li> </ul>	<u> </u>	
		• Do not induce vomiting unless told to do so by a poison control center or		
		doctor.		
		<ul> <li>Do not give anything by mouth to an unconscious person.</li> </ul>		
	1	HOT LINE NUMBER		
	ave the preduct eac			
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 layage				

Probable mucosal damage may contraindicate the use of gastric lavage.

		SECTION 5: FIRE	FIGHTING MEASURES
5.1	Flash	Point:	Not applicable.
5.2	Flammability:		Nonflammable and noncombustible.
5.3	Auto-	Ignition Temperature:	Not applicable.
5.4	Produ	icts of Combustion:	Not pertinent.
5.5	Fire H	lazards:	May decompose, generating irritating chlorine gas.
5.6	Explo	sion Hazards:	Not explosive.
5.7	Fire Fighting Media and Instructions:		
	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	Special Remarks on Fire Hazards:		Do not use Mono Ammonium Phosphate (MAP) fire extinguishers. Such use may cause explosion with release of toxic gases.

Safety Data Sheet (SDS No. 108)

**MULTI-CHLOR** 

	SECTION 6: ACCIDENTAL RELEASE MEASURES		
6.1	Small Spill:	Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
6.2	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.	
	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	Do not discharge into drains, water courses or onto the ground.	
	Precautions:	Environmental manager must be informed of all major releases.	

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

	Engin	neering Controls:	Local exhaust ventilation to maintain levels below STEL (Short Term Exposure Limit) of 1 ppm as chlorine.	
)	Personal Protection:			
	8.2.1	Eye / Face Protection:	Wear safety glasses, goggle prevent eye contact.	es or face shield to
	8.2.2	Skin Protection:	Wear appropriate chemical in clothing and chemical resist skin contact. Butyl rubber, N Gloves should be worn whe material. Wear chemical res a rubber apron when splash immediately if skin is contant contaminated clothing promi- reuse. Clean protective equi-	ant gloves to prevent leoprene, or Nitrile n handling this sistant clothing such as ning may occur. Rinse ninated. Remove ptly and wash before ipment before reuse.
	8.2.3	Respiratory Protection:	Avoid breathing vapor or misexposure limits are exceeded NIOSH approved respiratory 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 bre	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-
	8.2.4	Other Safety Equipment:	Eye wash facility and emergency shower should be in close proximity.	
	Expo	sure Limits:	Sodium Hypochlorite	Chlorine*
	8.3.1	<b>AIHA</b> (American Industrial Hygiene Association) / <b>WEEL</b> (Workplace Environmental Exposure Level guides) 2010	2 mg/m <sup>3</sup> : 15 minute. (Short-term time weighted average)	Not established
	8.3.2	<b>ACGIH</b> (American Conference of Governmental Industrial Hygienists) <b>TWA</b> (Time Weighted Average)	Not established.	0.5 ppm
	8.3.3	ACGIH STEL (Short Term Exposure Limit)	Not established.	1 ppm
	8.3.4	<b>OSHA PEL</b> (Permisible Exposure Limit)	Not established.	0.5 ppm
	8.3.5	ACGIH Ceiling	Not established.	Not established
	8.3.6	<b>NIOSH</b> (National Institute for Occupational Safety & Health) <b>IDLH</b> (Immediate Danger to Life & Health)	Not established.	10 ppm
	8.3.7	<b>OSHA STEL</b> (Short Term Exposure Limit)	Not established.	1 ppm as Cl <sub>2</sub>
	8.3.8	NIOSH (15 min. ceiling)	Not established.	0.5 ppm

**MULTI-CHLOR** 

	SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES         9.1       Appearance:       Greenish yellow liquid.         9.2       Odor:       Pungent.		
9.1	Appearance:	Greenish yellow liquid.	
9.2	Odor:	Pungent.	
9.3	Odor Threshold:	0.9 mg/m <sup>3</sup> .	Dala
9.4	pH:	11.2 – 11.4 (1% solution)	
9.5	Melting Point:	Not pertinent.	
9.6	Freezing point:	-23.3℃ (-10℉)	
9.7	<b>Boiling Point &amp; Boiling Range:</b>	Decomposes @ 110 ℃ (230 °F)	
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	No information available.	
	Explosive Limits:		
9.12	Vapor Pressure:	12.1 mm Hg @ 20℃ (68°F)	
9.13	Vapor Density:	2.61 (air=1)	
9.14	Relative Density (Specific	1.2 g/mL or 10 lb/gallon @ 20 °C (68 °F)	
	Gravity):		
9.15	Solubility in Water:	Mixes infinitely with water.	
9.16	Partition Coefficient: (n-octanol /	No information available.	
	water):		
9.17	Auto-ignition Temperature:	No information available.	
9.18	Decomposition Temperature:	Decomposes @ 110 ℃ (230 °F)	
9.19	Molecular Weight:	74.5 g/mole	
9.20	Viscosity:	1.75 - 2.50 centipoises (varies with temperature)	

	SECTION 10: 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	Hazardous Polymerization:	Will not occur.	

	SECTION 11: TO	SECTION 11: TOXICOLOGICAL INFORMATION		
11.1	Routes of Entry:	Eyes, skin, ingestion, dermal absorption.		
11.2	Acute Toxicity:			
	11.2.1 Oral Toxicity (LD <sub>50</sub> ):	3-5 g/kg (rat)		
	11.2.2 <b>Dermal Toxicity</b> (LD <sub>50</sub> ):	>2 g/kg (rabbit)		
	11.2.3 Primary Eye Irritation:	Corrosive		
	11.2.4 Primary Skin Irritation:	Corrosive		
	11.2.5 <b>Inhalation Toxicity</b> (LC <sub>50</sub> ):	No data available.		
11.3	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		

	SECTION 12: ECOLOGICAL INFORMATION				
12.1	Ecotoxicity:		Sodium hypochlorite is low in toxicity to avian wildlife, but it is highly toxic to freshwater fish and invertebrates.		
	12.1.1	Freshwater Fish Toxicity:	Atlantic Herring (clupea harengus) $LC_{50} = 0.033 - 0.097 \text{ mg/l/96 hr}$ , flow through bioassay (pH: 8) Shiner Perch (cymatogaster aggregata) $LC_{50} = 0.045 - 0.098 \text{ mg/l/96 hr}$ , flow through bioassay (pH: 8) Three Spine Stickleback (gasterosteus aculeatus) $LC_{50} = 0.141 - 0.193 \text{ mg/l/96 hr}$ , flow through bioassay (pH: 8) Pink Salmon (oncorhynchus gorbuscha) $LC_{50} = 0.023 - 0.052 \text{ mg/l/96 hr}$ , flow through bioassay (pH: 8) Coho Salmon (oncorhynchus kisutch) $LC_{50} = 0.026 - 0.038 \text{ mg/l/96 hr}$ , flow through bioassay (pH: 8) English Sole (parophrys vetulus) $LC_{50} = 0.044 - 0.144 \text{ mg/l/96 hr}$ , flow through bioassay (pH: 8) Fat Head Minnow (pimephales promelas) $LC_{50} = 0.22 - 0.62 \text{ mg/l/96 hr}$ , flow through bioassay (pH: 7)		
	12.1.2	Invertebrate Toxicity:	Water Flea (ceriodaphnia sp. 0) $LC_{50} = 0.006 \text{ mg/l/24 hr}$ Water Flea (daphnia magna) $LC_{50} = 0.07 \cdot 0.7 \text{ mg/l/24 hr}$ Water Flea (daphnia magna) $LC_{50} = 2.1 \text{ mg/l/96 hr}$ Fresh Water Shrimp (gammarus fasciatus) $LC_{50} = 0.4 \text{ mg/l/96 hr}$ No common name (nitocra spinipes) $LC_{50} = 0.40 \text{ mg/l/96 hr}$ Grass Shrimp (palaemonetes pugio) $LC_{50} = 0.52 \text{ mg/l/96 hr}$		
12.2	Persis	stence:	No data available.		
12.3	12.3 Environmental 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	Bioco	ncentration:	This material is not expected to bioconcentrate in organisms.		
12.5	Biode	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.

MULTI-CHLOR Safety Data Sheet (SDS No. 108)

		SECTION 14: T	RANSPORT INFORMATION		
14.1	Inside	containers 1.3 gallons or le	ess.		
	14.1.1	DOT Classification:	Consumer Commodity.		
	14.1.2	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% active ingredient)		
14.4	Certai to less	regulation, because of the lin	bns. brted in small quantities as part of a business are subject nited hazard they pose. These materials are known as that apply to MOTs are found in 49 CFR § 173.6.		
relatin	nformation g to this	on is not intended to convey all s	pecific regulatory or operational requirements / information f the transporting organization to follow all applicable laws,		

		SECTION 15: REGU	JLATORY INFOR	MATION	0
15.1	U.S. F	Regulations:			
	15.1.1	<b>OSHA HAZCOM</b> (Hazard Communication)	This material is conside HAZCOM Standard (29)	ered hazardous under the 9 CFR 1910.1200)	ע בי
	15.1.2	<b>OSHA PSM</b> (Process Safety Management)	Not regulated under PS	SM Standard (29 CFR 1910.119)	la v
	15.1.3	<b>EPA FIFRA</b> (Federal Insecticide, Fungicide and Rodenticide Act)	EPA Reg. No. :10897- (Registered pesticide u	under 40 CFR 152.10)	ופפו
	15.1.4	<b>EPA TSCA</b> (Toxic Substance Control Act)	notification.	luct is not subject to export	
	15.1.5	<b>EPA CERCLA</b> (Comprehensive Environmental Response, Compensation, and Liability Act)	Reportable Quantity (F (based on 12.5% active	RQ): 45.4 kg (100 lbs) or 80 gallons e ingredient).	Salely Data Sileet (SDS NO. 108)
	15.1.6	<b>EPA RMP</b> (Risk Management Plan)	Not listed. (40 CFR 68	.130)	
15.2	State	of California Regulations:			1
		<b>California only]:</b> Small quantities including bromates, may be found in Bromates are derived from bromide which chlorine is manufactured. Ad during the disinfection process. Brocancer when administered by the or directions and use care when handl Protection Agency has established dividuing upder et 10 arb (next parts).	n all chlorinating product es, which are present in s Iditional small quantities omates are known by the ral (drinking or ingesting ling or using this product	ts, including this product. sodium chloride (table salt) from of bromates may be generated e State of California to cause ) route. Read and follow label t. The US Environmental	
15.0	15.2.3	directions at use dilution will not exc This warning is provided pursuant to Safety Code, which requires the Go the State to cause cancer or reprod procedures established under the p California's Office of Environmental <b>CDPR</b> (California Department of Po <b>CalARP</b> (California Accidental Rela Program)	ceed this level. o Proposition 65, Chapte overnor of California to p luctive toxicity." This list proposition, and can be c Health Hazard Assessn esticide Regulation)	this product in accordance with label er 6.6 of the California Health and ublish a list of chemicals "known to is compiled in accordance with the obtained on the internet from	
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	15.2.3 Canac 15.3.1 15.3.2 Intern	directions at use dilution will not exc This warning is provided pursuant to Safety Code, which requires the Go the State to cause cancer or reprod procedures established under the p California's Office of Environmental <b>CDPR</b> (California Department of Po <b>CalARP</b> (California Accidental Rele Program) <b>Ja Regulations:</b> WHMIS (Workplace Hazardous Materials Information System) <b>DSL</b> (Domestic Substances List) <b>ational Inventory:</b>	<ul> <li>ceed this level.</li> <li>o Proposition 65, Chapter of California to pluctive toxicity." This list proposition, and can be of Health Hazard Assessment esticide Regulation)</li> <li>ease Prevention</li> <li>Classification: E (Construction)</li> <li>ease Prevention</li> <li>E - Corrosive to serve to s</li></ul>	his product in accordance with label er 6.6 of the California Health and ublish a list of chemicals "known to is compiled in accordance with the obtained on the internet from nent at http://www.oehha.ca.gov. Registration No: 10897-26-AA Not regulated. orrosive Materials) eria Met by this Chemical: skin - corrosive substance re List: Included for disclosure at	
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16.1	HMIS	SECTION 16: OTHE		
	1	HEALTH	2	
		FLAMMABILITY	0	
		PHYSICAL HAZARD	1	
		PERSONAL PROTECTION	See Section 8.	
6.2	NFPA	704 (National Fire Protection Association):		
		HEALTH	2	
	16.2.2	FLAMMABILITY	0	
	16.2.3	INSTABILITY	0	
	16.2.4	SPECIAL	None	
6.3		ational Fire Code / International ng Code:	Irritant.	V
6.4		(American National Standards Institute):	·	
	16.4.1	Hazardous Industrial Chemicals - SDS-Preparation:	Complies with AN	<b>NSI Z400.1 - 2004</b> .
	16.4.2	Hazardous Industrial Chemicals -	Complies with AN	NSI Z129.1 – 2006.
		Precautionary Labeling:		
echr NAR	nical pe RANTY	formation contained herein, while no rsonnel and is true and accurate to the OR GUARANTEE, express or implied, lity, or as to any other condition of use,	ne best of our know is made regarding	wledge and belief. NO the product performance,