

Industrial Chemicals Inc.

2042 Montreat Drive - PO Box 660688 - Birmingham, Alabama 35216

November 22, 2023

Attention: Safety Data Sheet Coordinator

Dear Customer:

Enclosed is the Safety Data Sheet for Chlorine (DPC) dated March 1, 2023 that provides important health and safety information for this recently purchased product. Since you may redirect the product to more than one area within your location or to another facility, please be sure this information is available to all persons handling and/or using the material.

This Safety Data Sheet has either been updated since you last received it or is for a product not previously purchased from Industrial Chemicals Inc. Please consider it the current version to replace any previous version you may have received. In the event any revisions are made to the Safety Data Sheet, a revised copy will be forwarded for the next purchase.

This product contains a chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372. Please refer to the Material Safety Data Sheet for a list of the regulated substances.

The distribution of these safety data sheets is part of our continuing Product Stewardship Program of providing information and updating our customers. The regulations promulgated by OSHA for Hazard Communication, 29 CFR 1910.1200 have been considered in the distribution of this Safety Data Sheet.

Should you have any questions please call 205-823-7330 or send email to Regulatory@industrialchem.com.

Thank you, Industrial Chemicals Inc.

If you prefer to receive safety data sheets by email please provide the company name, contact name, email address and phone number and return this page by fax to 205-278-5822 or email to Regulatory@industrialchem.com

Contact Name

Phone Number

Email Address

Company Name

DISTRIBUTION FACILITIES Birmingham, Alabama Atlanta, Georgia Dothan, Alabama Mobile, Alabama Montgomery, Alabama Dalton, Georgia



101576

2016 EMERGENCY RESPONSE GUIDE SHEET

POTENTIAL HAZARDS

HEALTH

- TOXIC; may be fatal if inhaled or absorbed through skin.
- Fire will produce irritating, corrosive and/or toxic gases.
- · Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- · Runoff from fire control may cause pollution.

FIRE OR EXPLOSION

- · Substance does not burn but will support combustion.
- · Vapors from liquefied gas are initially heavier than air and spread along ground.
- These are strong oxidizers and will react vigorously or explosively with many materials including fuels.
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- · Some will react violently with air, moist air and/or water.
- · Cylinders exposed to fire may vent and release toxic and/or corrosive gas through pressure relief devices.
- · Containers may explode when heated.
- · Ruptured cylinders may rocket.

PUBLIC SAFETY

- CALL EMERGENCY RESPONSE Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- · As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- · Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

EVACUATION

Spill

· See the Initial Isolation and Protective Action Distances.

Fire

• If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the Canada and United States National Response Centers reference document.

EMERGENCY RESPONSE

FIRE

Small Fire

CAUTION: These materials do not burn but will support combustion. Some will react violently with water.

- [•] Contain fire and let burn. If fire must be fought, water spray or fog is recommended.
- · Water only; no dry chemical, CO2 or Halon®.
- · Do not get water inside containers.
- · Move containers from fire area if you can do it without risk.
- · Damaged cylinders should be handled only by specialists.

2016 EMERGENCY RESPONSE GUIDE SHEET

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- · Cool containers with flooding quantities of water until well after fire is out.
- · Do not direct water at source of leak or safety devices; icing may occur.
- · Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Fully encapsulating, vapor-protective clothing should be worn for spills and leaks with no fire.
- Do not touch or walk through spilled material.
- · Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- · Stop leak if you can do it without risk.
- · Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- · Do not direct water at spill or source of leak.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Prevent entry into waterways, sewers, basements or confined areas.
- · Isolate area until gas has dispersed.
- · Ventilate the area.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- · Move victim to fresh air.
- · Call 911 or emergency medical service.
- · Give artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- · Clothing frozen to the skin should be thawed before being removed.
- · Remove and isolate contaminated clothing and shoes.
- · In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- · Keep victim calm and warm.
- · Keep victim under observation.
- · Effects of contact or inhalation may be delayed.





Product identifier: CHLORINE, LIQUID Synonyms: Chlorine, Chlorine – liquefied gas, Chlorine gas, Chlorine (Liquid or Gas)							
Intended use:	Water chlor	ination, water treatment chemicals, chemical synthesis. This	material is a registered				
	pesticide.	ified. This is a pesticide product, do not use in a pesticide application that is not included or					
Uses Advised Against:	None identi the label.						
Company Identification	n:	DPC Industries, Inc.					
		DPC Enterprises, LP					
		DXI Industries, Inc.					
		Petra Chemical Company					
		PO Box 24600					
		Houston, TX 77229-4600					
Emergency:		(000) 404 0000					
CHEMTREC (USA)	lanhana Na	(800) 424-9300					
24 hour Emergency Te		. (281) 457-4888 www.dxgroup.com					
		www.uxgroup.com					
lazard identification of Physical hazards	the produc	t Gases under pressure; may explode if heated	Press. gas				
r nysicai nazai US		May cause or intensify fire; oxidizer	Category 1				
Health hazards		Toxic if inhaled.	Category 3				
		Causes skin irritation	Category 2				
		Causes serious eye irritation	Category 2A				
		May cause respiratory irritation	Category 3				
		5 1 5					
Environmental haz	zards	Very toxic to aquatic environment	Category 1				
		Very toxic to aquatic environment, with long lasting effects	Category 1				
Label elements Using the Toxicity Data	listed in sec	tion 11 and 12 the product is labeled as follows:					
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	Ingredient	CAS Number	Percent (%)	7			
	Chlorine	7782-50-5	99.5-100	_			
First Aid Measures							
General	Ensure that medical per themselves.	sonnel are aware of the ma	aterial(s) involved and take	precautions to protect			
Inhalation	mouth method if victim i pocket mask equipped v	Apply artificial respiration in ngested or inhaled the sub- with a one- way valve or oth fficult. GET IMMEDIATE N	stance; induce artificial res her proper respiratory medi	piration with the aid of a			
Eyes		clean fresh water for at lea , if present, and safe to do					
Skin	Exposure to liquid may Wash skin with soap an	substance, immediately flus cause frostbite burns. Rei d water. Thoroughly clean E MEDICAL ATTENTION	move contaminated clothin	g, jewelry and shoes.			
Ingestion	vomiting. Ingestion not	d obtain IMMEDIATE MED considered a likely route o		at rest. Do NOT induce			
	ptoms and effects, both						
Overview		al will cause burns to the sl gh, shortness of breath, hea					
Indication of immediate medical attention and special treatment needed	probable mucosal dama appropriately. Provide g delayed.	the affected person for fros age may contraindicate the eneral supportive measure	use of gastric lavage. Trea	it the affected person			
Fire-fighting measure							
Recommended Extinguishing media	Use fire-extinguishing h	nedia appropriate for surrou	unding materials.				
Unsuitable extinguishing media	Direct water spray. Dire	ect water spray jet.					
Special hazards arising from the substance or mixture	may result in the generation of flammable hydrogen gas. Water used for fire extinguishing, which has						
Advice for fire- fighters	demand breathing appa must be worn to preven limited to: boots gloves,	hing, including helmet, self aratus, protective clothing a it personal contact with this hard hat, splash-proof gog able suit. Compatible mate	nd face mask. Additional p material. Those items incl ggles, full face shield and ir	rotective clothing ude but are not npervious clothing,			
	immediate vicinity. Cylir	plosion do not breathe fum nders can burst violently wh with water spray. Evacuate	nen heated, due to excess	pressure build-up.			

6.	ACCIDENIAL REI	ease M	leasures						
		sonal ions, ective t and ency	Immediate ground ar upwind of spaces be Local auth Chlorine g Chlorine. Level "B"	ely evacuate personnel to safe areas. In ad collect in low or confined areas (sew signil/leak. Keep out of low areas. Keep efore entering them. Wear appropriate horities should be advised if significant gas it is recommended to use as a min For Liquid spills it is recommended to is the addition of a splash hood). Do n earing appropriate protective clothing. I PE.	vers, basements, tanks p unnecessary persona protective equipment a spillages cannot be co imum level "B " protec utilize as a minimum e ot touch damaged con	s). Keep people away from and nel away. Ventilate closed and clothing during clean-up. ontained. For response to tion that is compatible to nhanced level "B" (Enhanced tainers or spilled material			
	Environm precau		 Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment. Extinguish all flames in the vicinity. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Ventilate well, stop flow of gas or liquid if possible. If possible, turn leaking containers so that gas escapes rather than liquid. Dike far ahead of spill for later disposal. Isolate area until gas has dispersed. Neutralize spilled material with crushed limestone, soda ash or lime. Collect spillage. 						
	Methods materia containmen cleanir	s and al for t and							
7.	Handling and s	torage	•						
	Precaution safe han	is for	Avoid heat, sparks, open flames and other ignition sources. Keep away from clothing and other combustible materials. Use only chlorine-compatible lubricants. Do not use greases and oils. Do not breathe gas. Do not get in eyes, on skin, on clothing. Use in a sealed system and/or a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment.						
	Condition safe sto including	rage,	upright po	under pressure. Keep away from heat osition at all times, close all valves whe					
	incompatibi		Store at te	n incompatible materials. emperatures not exceeding 131 °F (55 is 225 psig.	5°C) For the above spe	ecified temperature the system			
8.		lities	Store at te pressure	emperatures not exceeding 131 °F(55 is 225 psig. I protection	· .	ecified temperature the system			
8.	incompatibi	ilities rols an	Store at te pressure	emperatures not exceeding 131 °F(58 is 225 psig.	eters	ecified temperature the system			
3.	incompatibi	ilities rols an M	Store at to pressure	emperatures not exceeding 131 °F (58 is 225 psig. I protection Exposure Control Parame	eters Type	· · ·			
3.	incompatibi Exposure contr CAS No.	ilities rols an M	Store at to pressure of persona	emperatures not exceeding 131 °F (58 is 225 psig. I protection Exposure Control Parame Source	eters	Value			
8.	incompatibi Exposure contr CAS No.	ilities rols an M	Store at to pressure of persona	emperatures not exceeding 131 °F (55 is 225 psig. I protection Exposure Control Parame Source OSHA Table Z-1 Limits	eters Type Ceiling	Value 3 mg/m3			
8.	incompatibi	rols an Mi Cl	Store at to pressure ad persona aterial nlorine Should be achieved to maintai respirator	emperatures not exceeding 131 °F (58 is 225 psig. I protection Exposure Control Parame Source OSHA Table Z-1 Limits US ACGIH Threshold limit values US ACGIH Threshold limit values e handled in closed systems, if possible by the use of local exhaust ventilation in concentrations of particulates and an y protection must be worn. Observe C	eters Type Ceiling STEL TWA e. Where reasonably p and good general extr ny vapor below occupa Occupational Exposure	Value 3 mg/m3 1 ppm 0.5 ppm racticable this should be action. If these are not sufficient ational exposure limits suitable Limits and minimize the risk of			
8.	incompatibi	rols an Mi Cl ering ttrols	Store at to pressure ad persona aterial nlorine Should be achieved to maintai respirator inhalation	emperatures not exceeding 131 °F (58 is 225 psig. I protection Exposure Control Parame Source OSHA Table Z-1 Limits US ACGIH Threshold limit values US ACGIH Threshold limit values e handled in closed systems, if possible by the use of local exhaust ventilation in concentrations of particulates and an y protection must be worn. Observe C b. Eye wash facilities and emergency sl	eters Type Ceiling STEL TWA e. Where reasonably p and good general extr ny vapor below occupa Dccupational Exposure hower must be availab	Value 3 mg/m3 1 ppm 0.5 ppm racticable this should be action. If these are not sufficient ational exposure limits suitable Limits and minimize the risk of			
8.	incompatibi	rols an M Cl ering strols	Store at to pressure d persona aterial hlorine Should be achieved to maintai respirator inhalation n measure Use NIOS	emperatures not exceeding 131 °F (58 is 225 psig. I protection Exposure Control Parame Source OSHA Table Z-1 Limits US ACGIH Threshold limit values US ACGIH Threshold limit values e handled in closed systems, if possible by the use of local exhaust ventilation in concentrations of particulates and an y protection must be worn. Observe C	eters Type Ceiling STEL TWA e. Where reasonably p and good general extr ny vapor below occupa Docupational Exposure hower must be availab pment g manufacturer's recomment	Value 3 mg/m3 1 ppm 0.5 ppm action. If these are not sufficient ational exposure limits suitable Limits and minimize the risk of le when handling this product.			
8.	incompatibi	rols an M Cl ering strols	Store at to pressure ad persona aterial hlorine Should be achieved to maintai respirator inhalation n measure Use NIOS concentra Wear face	emperatures not exceeding 131 °F (58 is 225 psig. I protection Exposure Control Parame Source OSHA Table Z-1 Limits US ACGIH Threshold limit values US ACGIH Threshold limit values US ACGIH Threshold limit values e handled in closed systems, if possible by the use of local exhaust ventilation in concentrations of particulates and an y protection must be worn. Observe C b. Eye wash facilities and emergency sl s, such as personal protective equip SH/MSHA approved respirator, followin	eters Type Ceiling STEL TWA e. Where reasonably p and good general extr ny vapor below occupa occupational Exposure hower must be availab coment ng manufacturer's recon its. hields and/or safety go	Value 3 mg/m3 1 ppm 0.5 ppm racticable this should be action. If these are not sufficient ational exposure limits suitable Limits and minimize the risk of le when handling this product. mmendations when oggles.			

9.	Physical and chemical properties					
	Appearance:	Amber Color Liquid. Greenish-Yellow Gas				
	Odor:	Pungent Irritating Odor				
	Odor threshold:	.31 ppm air 1.7				
	pH:	Not Applicable				
	Melting point / freezing point:	-150 °F (-101 °C)				
	Initial boiling point and boiling range:	-29.3 °F (-34 °C)				
	Flash Point:	Not Applicable				
	Evaporation rate (Ether = 1):	Not Available				
	Flammability (solid, gas):	Not Applicable				
	Upper/lower flammability or explosive limits:	Lower Explosive Limit: Not Applicable				
		Upper Explosive Limit: Not Applicable				
	Vapor pressure (mmHg):	4800 mmHg (@25 °C)				
	Vapor Density:	2.49				
	Specific Gravity:	1.4				
	Solubility in Water:	Negligible				
	Partition coefficient n-octanol/water (Log Kow):	Not Measured				
	Auto-ignition temperature (°C):	Not Measured				
	Decomposition temperature:	Not Measured				
	Viscosity (cSt):	Not Measured				
	VOC %:	Not Measured				
	Other information:	No other relevant information.				

10. Stability and reactivity

••		
	Reactivity:	Oxidizer.
	Chemical stability:	Stable under normal circumstances.
	Possibility of hazardous reactions:	Dry material is highly reactive with titanium and tin. Reacts with most metals at high temperatures or in the presence of moisture. Avoid contact with water. Reacts with water to form corrosive acidic solution (hydrochloric acid) May react explosively with organic matter.
	Conditions to avoid:	No data available
	Incompatible materials:	Avoid contact with reducing agents, organics and alkalis. Keep away from materials such as acetylene, turpentine & other hydrocarbons, ammonia, hydrogen, ether, metals, sulfur, & aluminum.
	Hazardous decomposition products:	Hydrogen chloride and hypochlorous acid.

11. Toxicological information Acute toxicity

Ingredient	Results	Species	Dose	Exposure
Chlorine - (7782-50-5)	LC50 Inhalation Gas.	Rat	147 ppm	4 hours
	LC50 Inhalation	Rat	293 ppm	1 hour

Item	Hazard
Acute Toxicity:	0.2 - 0.4 ppm odor detection (some tolerance develops)
	1 - 3 ppm mild mucous membrane irritation (can be tolerated ~ 1 hour)
	5 - 15 ppm moderate irritation of upper respiratory tract
	30 ppm immediate chest pain, vomiting, dyspnea, cough
	40 - 60 ppm toxic pneumonitis and pulmonary edema
	430 ppm lethal over 30 minutes
	1000 ppm fatal within a few minutes
	It's action in the respiratory tract is due to its strong oxidizing capability; it forms
	both hypochlorous acid and hypochloric acid on contact with moist mucous
	membranes. Symptoms of pulmonary congestion and edema may develop after a
	latency period of several hours following severe acute exposure to chlorine.

Information on likely routes of e	xposure		
Eye contact:	•	age. Liquid exposure may cause	frostbite.
Skin contact:		d exposure may cause frostbite.	
Inhalation:	May cause irritation (pos Significant exposures ma	sibly severe), chemical burns, an ay be fatal.	d pulmonary edema.
Ingestion:	Causes digestive tract but	urns.	
Signs and symptoms of exposure:		I will cause burns to the skin, eye ath, headache, nausea, vomiting.	
Information on toxicological effe	ects		
Acute toxicity:		to Life or Health: 10.0 ppm.	
Carcinogenicity:	Not considered to be a c	arcinogen by IARC, ACGIH, NTP	or OSHA.
Reproductive Toxicity:	No data available.		
Specific target organ systemic toxicity (single exposure):	Not available.		
Specific target organ systemic Toxicity (repeated exposure):	Causes damage to organ	ns (lungs) through prolonged or re	epeated exposure.
Aspiration hazard:	Due to the physical form	of the product it is not an aspirati	ion hozard
Ecological information Toxicity Very toxic to aquatic life. Toxic to aq	uatic life with long lasting e	iffects.	
Ecological information Toxicity Very toxic to aquatic life. Toxic to aq Ingredient	uatic life with long lasting e Aquatic Eco 96 hr LC50 fish, mg/l	ffects. toxicity 48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Ecological information Toxicity Very toxic to aquatic life. Toxic to aq	uatic life with long lasting e Aquatic Eco	ffects. toxicity	
Ecological information Toxicity Very toxic to aquatic life. Toxic to aq Ingredient	uatic life with long lasting e Aquatic Eco 96 hr LC50 fish, mg/l 14.00, Oncorhynchus mykiss	ffects. toxicity 48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l 0.76 (96 hr), Algae
Ecological information Toxicity Very toxic to aquatic life. Toxic to aq Ingredient Chlorine - (7782-50-5) Persistence and	uatic life with long lasting e Aquatic Eco 96 hr LC50 fish, mg/l 14.00, Oncorhynchus mykiss	ffects. toxicity 48 hr EC50 crustacea, mg/l 0.11, Daphnia pulex	ErC50 algae, mg/l 0.76 (96 hr), Algae
Ecological information Toxicity Very toxic to aquatic life. Toxic to aq Ingredient Chlorine - (7782-50-5) Persistence and degradability: Bioaccumulative potential: Mobility in soil:	uatic life with long lasting e Aquatic Eco 96 hr LC50 fish, mg/l 14.00, Oncorhynchus mykiss This material is an elem Will not bioaccumulate. No data available.	iffects. toxicity 48 hr EC50 crustacea, mg/l 0.11, Daphnia pulex ent and not subject to biodegrac	ErC50 algae, mg/l 0.76 (96 hr), Algae
Ecological information Toxicity Very toxic to aquatic life. Toxic to aq Ingredient Chlorine - (7782-50-5) Persistence and degradability: Bioaccumulative potential: Mobility in soil: Results of PBT and vPvB assessment:	uatic life with long lasting e Aquatic Eco 96 hr LC50 fish, mg/l 14.00, Oncorhynchus mykiss This material is an elem Will not bioaccumulate. No data available. This product contains no	ffects. toxicity 48 hr EC50 crustacea, mg/l 0.11, Daphnia pulex ent and not subject to biodegrac PBT/vPvB chemicals.	ErC50 algae, mg/l 0.76 (96 hr), Algae
Ecological information Toxicity Very toxic to aquatic life. Toxic to aq Ingredient Chlorine - (7782-50-5) Persistence and degradability: Bioaccumulative potential: Mobility in soil: Results of PBT and vPvB	uatic life with long lasting e Aquatic Eco 96 hr LC50 fish, mg/l 14.00, Oncorhynchus mykiss This material is an elem Will not bioaccumulate. No data available.	ffects. toxicity 48 hr EC50 crustacea, mg/l 0.11, Daphnia pulex ent and not subject to biodegrac PBT/vPvB chemicals.	ErC50 algae, mg/l 0.76 (96 hr), Algae
Ecological information Toxicity Very toxic to aquatic life. Toxic to aq Ingredient Chlorine - (7782-50-5) Persistence and degradability: Bioaccumulative potential: Mobility in soil: Results of PBT and vPvB assessment: Other adverse effects:	uatic life with long lasting e Aquatic Eco 96 hr LC50 fish, mg/l 14.00, Oncorhynchus mykiss This material is an elem Will not bioaccumulate. No data available. This product contains no	ffects. toxicity 48 hr EC50 crustacea, mg/l 0.11, Daphnia pulex ent and not subject to biodegrac PBT/vPvB chemicals.	ErC50 algae, mg/l 0.76 (96 hr), Algae
Ecological information Toxicity Very toxic to aquatic life. Toxic to aq Ingredient Chlorine - (7782-50-5) Persistence and degradability: Bioaccumulative potential: Mobility in soil: Results of PBT and vPvB assessment: Other adverse effects: Disposal considerations Waste treatment methods:	uatic life with long lasting e Aquatic Eco 96 hr LC50 fish, mg/l 14.00, Oncorhynchus mykiss This material is an elem Will not bioaccumulate. No data available. This product contains no No other effects are expe Do not allow into drains of disposed of in accordance the Environmental Protects should be obtained from regulations apply.	iffects. toxicity 48 hr EC50 crustacea, mg/I 0.11, Daphnia pulex ent and not subject to biodegrad PBT/vPvB chemicals. ected. or water courses. Wastes and em ce with regulations made under th ction Act. Using information provi the Waste Regulation Authority, v	ErC50 algae, mg/l 0.76 (96 hr), Algae dation. ptied containers should be e Control of Pollution Act ded in this data sheet, adw whether the special waste
Ecological information Toxicity Very toxic to aquatic life. Toxic to aq Ingredient Chlorine - (7782-50-5) Persistence and degradability: Bioaccumulative potential: Mobility in soil: Results of PBT and vPvB assessment: Other adverse effects: Disposal considerations	uatic life with long lasting e Aquatic Eco 96 hr LC50 fish, mg/l 14.00, Oncorhynchus mykiss This material is an elem Will not bioaccumulate. No data available. This product contains no No other effects are expe Do not allow into drains of disposed of in accordance the Environmental Protect should be obtained from regulations apply. Use or process if possibl	ffects. toxicity 48 hr EC50 crustacea, mg/l 0.11, Daphnia pulex ent and not subject to biodegrac PBT/vPvB chemicals. ected. or water courses. Wastes and em ce with regulations made under th ction Act. Using information provi	ErC50 algae, mg/l 0.76 (96 hr), Algae dation. ptied containers should be e Control of Pollution Act ded in this data sheet, adw whether the special waste

14.	4. Transport information										
	-	UN number:	UN1017								
	UN proper s	shipping name:	Chlorine								
	Transport ha	azard class(es)									
	DOT (Domes	stic Surface Trans	sportation)								
	DOT P	roper Shipping	Chlorine								
		Name:									
	DO	T Hazard Class	2.3, (5.1, 8	3)							
		DOT Label:	2.3, 5.1, 8								
		N / NA Number:	UN1017								
		Packing Group:	Not Applic	able							
	CEI	RCLA/DOT RQ:	10 lbs.								
	Environn	nental hazards:	IMDG Mar	ine Pollut	ant: Yes (C	Chlorine)					
	Special p	precautions for	Not Applic	able							
		user:									
15. I	Regulatory info	ormation									
	Regula	tory Overview:				15 is not inten					
						Il ingredients o	of this	product a	re listed o	n the T	SCA
_					ontrol Act)	Inventory.					
	WHMIS	Classification:	A - Comp								
			C - Oxidiz								
			D1A - Poi	sonous ai	nd Infectiou - Very toxic	is Material; Ma	terials	causing	immediate	e and se	erious
			E - Corros			material					
-	OSHA	REGULATORY				zardous by the		A Hazard	Commun	ication	Standard
	CONA	STATUS:	(29 CFR 2			zaruous by the	, 0011	A Hazart	Commun	ication	otanuaru
_	US EPA	Tier II Hazards:	(Fire:	No	Imm	nediate (A	Acute):	Yes	
			S	udden Ro	elease of	Yes		ayed (Ch	,	Yes	
			_		ressure:		Delayee		ayea (enrenio).		
				F	Reactive:	Yes					
	SARA 302 I	Extremely Hazard	dous Substa	ance / RC	Qs (lbs.) :	Yes (10-lbs)				•	
	SAR	A 311/312 Chem	icals and R	Qs (lbs.)	(>0.1%) :	Yes					
				SARA	313 (TRI)	Yes					
			OSHA PSM	(29 cfr 19	910.119):	Yes (2500-lb	s)				
F					TSCA:	Chlorine	,				
	State Regulations:	N.J. RTK Substa	nces (>1%)	Listed	Penn RTH	K Substances (>	>1%)	Listed	Califo Prop		Not Listed
				·	·			·			

16. Other information

EPA Registration Number: 813-10

NSF Maximum Use Level (STD 60): Check BOL for facility Data. (30 mg/L)

Revision Information: Changed GHS Hazard Classification: See section 2.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

THE USER IS CAUTIONED TO PERFORM HIS OWN HAZARD EVALUATION AND TO RELY ON HIS OWN DETERMINATIONS.