PROPOSAL FORM

NAME OF BIDDER: DPC ENTERPLISES LP
ADDRESS: 620 WEST 10 TO ST
RESERVE, LA. 10084
PHONE: 985-536-1174
FAX: 985-576-7203
EMAIL: MCHAPMAN @DXGROUP. COM
AUTHORIZED SIGNATURE: Man Cho

PROPOSAL

BID PRICE

A - Gaseous Chlorine	\$ 820. 9 per ton
	\$ 820. per 1200 lbs.
B - Anhydrous Ammonia	\$ No BIO per pound
C - Hydrofluorosilicic Acid	\$ No BID per pound



CHLORINE UN 1017

GER: Hazardous liquid and gas under pressure. May cause chemical monia and even death in high concentrations. May cause severe irrin to skin, eyes, upper respiratory tract and lung tissue. Liquid may eyes and skin. Can react explosively with organic products.

ORE USING, READ & UNDERSTAND CURRENT M.S.D.S. FOR

ERAL INSTRUCTIONS: (See diagrams on reverse side of tag) ine cylinders have one valve and in the standing position will deliver fon containers have two valves in one head. When the container is orizontal position, with valves in a vertical line, gas is delivered from oper valve and ilquid from the lower valve.

olding of containers discharging liquid is not recommended.

e your cylinders and containers. Use them in the order received.

only valves, gauges, regulators, fittings, piping and equipment led for chlorine service. Never use standard pipe fittings to connect

inect equipment line to valve, secure cylinder or container, remove protection hood and valve outlet cap. Using special wrench shown, adapter to valve with the yoke clamp. Use new gasket supplied me connection is made. Make sure all connections are tight. Open by turning valve stem one full turn counter-clockwise. This valve is signed to regulate the flow of chlorine and the use for this purpose ar valve seat so that it cannot be completely closed. NEVER force re stem, using a hammer, wrench cheater or other improper imple-The packing nut may be loosened slightly to relieve tight stem, but n promptly to avoid a leak. Strike wrench handle with the heel of d to loosen a stuck valve stem.

for leaks with strong ammonia vapor. Appearance of white vapor

onnect, close valve disconnect tubing with adapter and yoke. Test s. Replace valve outlet with gasket on valve. Replace valve pro-lood, Plug or cap the open end of the chlorine connecting line ately to keep out moisture

Γ tamper with the fusible plugs.

For 24 Hour NON-EMERGENCY IFORMATION, call (281) 457-4888

FOR CHEMICAL EMERGENCY ALL CHEMTREC 1-800-424-9300



(CHLORINE LIQUEFIED GAS UNDER PRESSURE) UN1017, CHLORINE, 2.3, (5.1,8), RQ, POISON-INHALATION HAZARD, ZONE B, MARINE POLLUTANT

ACTIVE INGREDIENT: Chlorine 99.5% 100 0%

DANGER: Empty Cylinders and Tons Contain Chlorine Residue. Always Return Empty Cylinders and Tons with Valve Protective Housing.

KEEP OUT OF REACH OF CHILDREN

FATAL IF INHALED LIQUID CHLORINE CAUSES SEVERE BURNS

DPC Enterprises, LP 620 West 10th Avenue Reserve, LA 70084 (985) 536-1176 (Local) (281) 457-4888 (Houston)

DANGER

EPA Reg. No. 813-10 EPA Est. No. 813-LA-001 For 24 Hour Emergency Information Call CHEMTREC 800-424-9300

POISON

150 lbs. □ 2000 lbs. □ Other_ Net Contents:

FOR USE AS A DISINFECTANT BY EXPERIENCED PERSONNEL ONLY.

In municipal water supplies, sewage and water management plants, industrial use, residential and commercial swimming pools.



Maximum use in potable water is 30 mg/L

DO NOT REMOVE THIS TAG

PRECAUTIONARY STATEMENTS

INHALATION: If inhaled, move person to fresh air and get medical attention immediately. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. If breathing is difficult, oxygen should be administered by qualified personnel. Call poison control center or medical physician for treatment advice.

SKIN IRRITATION (SKIN OR CLOTHING CONTACT WITH LIQUID CHLORINE): In case of skin contact, immediately flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Destroy contaminated shoes

SKIN IRRIATION (CONTACT WITH GASEOUS CHLORINE): In case of skin contact, immediately flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Destroy contaminated

INGESTION: If swallowed, call poison control center or medical physician immediately for treatment advice. Have the product label with you when calling or going for medical treatment. Have exposed 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 medical physician. DO NOT give anything by mouth to an unconscious

EYE: In case of eye contact, immediately flush eyes with plenty of water for at least 30 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eyes. Get medical attention immediately

NOTE TO PHYSICIAN: Symptoms may become more severe up to 36 hours after exposure including pulmonary edema. Probable mucosal damage may contraindicate the use of gastric lavage, HAVE THE PRODUCT CONTAINER OR LABEL WITH YOU WHEN CALLING A POISON CONTROL CENTER OR MEDICAL PHYSICIAN, OR GOING FOR TREATMENT.

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONS









PO Box 24600, Houston, Texas 77229-4600 www.dxgroup.com

PRODUCT SPECIFICATIONS

LIQUID CHLORINE

	<u>Minimum</u>	<u>Maximum</u>
Chlorine, Wt. %	99.5	-
Moisture, ppm	_	50
Chloroform, ppm	_	50
Carbon Tetrachloride, ppm	_	15
Non-Volatile Residue, ppm	_	50





1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier:

CHLORINE, LIQUID

Synonyms:

Chlorine, Chlorine - liquefied gas, Chlorine gas, Chlorine (Liquid or Gas)

Intended use:

Water chlorination, water treatment chemicals, chemical synthesis. This material is a registered

Uses Advised Against: None identified. This is a pesticide product, do not use in a pesticide application that is not included on

the label.

Company Identification:

DPC Industries, Inc. DPC Enterprises, LP DXI Industries, Inc. **DX** Terminals PO Box 24600

Houston, TX 77229-4600

Emergency:

CHEMTREC (USA)

(800) 424-9300

24 hour Emergency Telephone No.

(281) 457-4888 www.dxgroup.com

2. Hazard identification of the product

zara racitatioadon or the proc		
Physical hazards	Gases under pressure	Liquefied gas
1	Oxidizing gases	Category 1
Health hazards	Acute toxicity, inhalation	Category 2
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, single exposure	Category 3
	Specific target organ toxicity, repeated	Category 1(Lung) exposure
Environmental hazards	Very hazardous to the aquatic environment,	Category 1
	acute hazard	

Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows:



Signal Word Danger		
Hazard Statements	May cause or intensify fire; oxidizer. Contains gas under pressure; may explode if heated. Fatal if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. May be corrosive to metals	
Precautionary Statements		
Prevention	Keep / Store away from combustible materials. Keep reduction valves free from grease and oil. Do not breathe mist / vapors / spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves / eye protection / face protection. Wear respiratory protection. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing	
Response	and wash before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor / physician if you feel unwell. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Immediately call a POISON CENTER or doctor / physician. If eye irritation persists: Get medical advice / attention. IN CASE OF FIRE: Stop leak if safe to do so.	
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.	
Disposal	Dispose of contents / container in accordance with local / national regulations.	

Composition/information on ingredients Synonyms: Chlorine, Chlorine - liquefied gas, Chlorine gas, Chlorine (Liquid or Gas) Substance classified with a health or environmental hazard. Substance with a workplace exposure limit. Ingredient **CAS Number** Percent (%) Chlorine 7782-50-5 99.5-100 First Aid Measures General Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Inhalation Move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-tomouth method if victim ingested or inhaled the substance; induce 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. GET IMMEDIATE MEDICAL ATTENTION Flush immediately with clean fresh water for at least 10 minutes, holding the eyelids apart. Eves Remove contact lenses, if present, and safe to do so. Continue rinsing. GET IMMEDIATE MEDICAL ATTENTION. Skin In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Exposure to liquid may cause frostbite burns. Remove contaminated clothing, jewelry and shoes. Wash skin with soap and water. Thoroughly clean and dry contaminated clothing and shoes before reuse. GET IMMEDIATE MEDICAL ATTENTION Ingestion If accidentally swallowed obtain IMMEDIATE MEDICAL ATTENTION. Keep at rest. Do NOT induce vomiting. Ingestion not considered a likely route of exposure. Most important symptoms and effects, both acute and delayed Overview Contact with this material will cause burns to the skin, eyes and mucous membranes. Unconsciousness, Cough, shortness of breath, headache, nausea, vomiting. May cause lung damage For liquid contact, treat the affected person for frostbite if necessary. If the product is ingested, Indication of immediate probable mucosal damage may contraindicate the use of gastric layage. Treat the affected person medical attention appropriately. Provide general supportive measures and treat symptomatically. Symptoms may be and special delayed. treatment needed Fire-fighting measures Recommended Use fire-extinguishing media appropriate for surrounding materials. Extinguishing media Unsuitable Direct water spray. Direct water spray jet. extinguishing media Special hazards May cause fire or explosion; strong oxidizer. Contents under pressure. Pressurized container may arising from the explode when exposed to heat or flame. Contact with reactive metals e.g., aluminum, zinc and tin substance or may result in the generation of flammable hydrogen gas. Water used for fire extinguishing, which has mixture been in contact with the product, may be corrosive. Water spray on active leak may promote accelerated corrosion of container and accelerate rate of leakage. Wear full protective clothing, including helmet, self-contained positive pressure or pressure Advice for firedemand breathing apparatus, protective clothing and face mask. Additional protective clothing fighters must be worn to prevent personal contact with this material. Those items include but are not limited to: boots gloves, hard hat, splash-proof goggles, full face shield and impervious clothing, i.e. chemically impermeable suit. Compatible materials for response to this material are neoprene and butyl rubber. In case of fire and/or explosion do not breathe fumes. Remove pressurized gas cylinders from the immediate vicinity. Cylinders can burst violently when heated, due to excess pressure build-up. Cool containers / tanks with water spray. Evacuate area and fight fire remotely due to the risk of explosion. ERG Guide No. 124

Accident	al Release M	easures
equi	Personal recautions, protective ipment and emergency procedures	Immediately evacuate personnel to safe areas. Many gases are heavier than air and will spread alo ground and collect in low or confined areas (sewers, basements, tanks). Keep people away from an upwind of spill/leak. Keep out of low areas. Keep unnecessary personnel away. Ventilate closed spaces before entering them. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained. For response to Chlorine gas it is recommended to use as a minimum level "B" protection that is compatible to Chlorine. For Liquid spills it is recommended to utilize as a minimum enhanced level "B" (Enhanced Level "B" is the addition of a splash hood). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Responders can reference Chlorine Institute pamph #65 on PPE.
	vironmental precautions	Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.
contai	ethods and material for inment and cleaning up	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 the 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.
Handling	and storage	1
Prec	autions for fe handling	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.
ind	nditions for afe storage, cluding any npatibilities	Contents under pressure. Keep away from heat, sparks and open flame. Secure cylinders in an upright position at all times, close all valves when not in use. Store in a well-ventilated place. Store away from incompatible materials.
1		01

8. Exposure controls and personal protection

Exposure Control Parameters

		Exposure control i diamor	010	
CAS No.	Material	Source	Туре	Value
7782-50-5	Chlorine	OSHA Table Z-1 Limits	Ceiling	3 mg/m3
		US ACGIH Threshold limit values	STEL	1 ppm
		US ACGIH Threshold limit values	TWA	0.5 ppm

Store at temperatures not exceeding 131 °F (55°C) For the above specified temperature the system

Engineering	Should be handled in closed systems, if possible. Where reasonably practicable this should be
Controls	achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient
	to maintain concentrations of particulates and any vapor below occupational exposure limits suitable
	respiratory protection must be worn. Observe Occupational Exposure Limits and minimize the risk of
	inhalation. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

pressure is 225 psig.

Respiratory	Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.		
Eyes	Wear face shield with safety glasses with side shields and/or safety goggles.		
Skin	Chemical resistant clothing such as coveralls/apron boots should be worn. Chemical Impervious gloves.		
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.		

Page 3 of 6 Chlorine

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):	i): 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):

Other information:

VOC %:

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.	

Not Measured

Not Measured

No other relevant information.

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				
ii ii	30 ppm immediate chest pain, vomiting, dyspnea, cough				
	40 - 60 ppm toxic pneumonitis and pulmonary edema				
1	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.				

11. Toxicological information

Acute toxicity (Cont.)

POTENTIAL HEALTH EFFECTS:

TOTERTIAL HEALTH LITEOTO.						
Information on likely routes of e	xposure					
Eye contact:	Causes serious eye damage. Liquid exposure may cause frostbite.					
Skin contact:	Causes skin burns. Liquid exposure may cause frostbite.					
Inhalation:	May cause irritation (possibly severe), chemical burns, and pulmonary edema. Significant exposures may be fatal. Causes digestive tract burns.					
Ingestion:						
Signs and symptoms of exposure:	Contact with this material will cause burns to the skin, eyes and mucous membranes. Cough, shortness of breath, headache, nausea, vomiting. May cause lung damage. Unconsciousness.					
Information on toxicological effe	ects					
Acute toxicity:	Fatal if inhaled. Irritation Threshold: approximately 0.5 ppm Immediately Dangerous to Life or Health: 10.0 ppm.					
Carcinogenicity:	Not considered to be a carcinogen 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 organs (lungs) through prolonged or repeated exposure.					
Aspiration hazard:	Due to the physical form of the product it is not an aspiration hazard.					

12. Ecological information

Toxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l		
Chlorine - (7782-50-5)	14.00,	0.11, Daphnia pulex	0.76 (96 hr), Algae		
	Oncorhynchus mykiss				

Persistence and degradability:	This material is an element and not subject to biodegradation.				
Bioaccumulative potential:	Will not bioaccumulate.				
Mobility in soil:	No data available.				
Results of PBT and vPvB assessment:	This product contains no PBT/vPvB chemicals.				
Other adverse effects:	No other effects are expected.				

13. Disposal considerations

Waste treatment methods:	Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet, advice should be obtained from the Waste Regulation Authority, whether the special waste					
Waste from material:	regulations apply. Use or process if possible. Chlorine may be absorbed into an alkaline solution such as caustic soda, soda ash or hydrated lime. Dispose in accordance with all applicable regulations.					
Container Management:	Return empty chlorine cylinders, tankcars and cargo tanks containing residual gas and/or liquid to supplier in compliance with applicable DOT regulations. See product label for container disposal information.					

Chlorine Page 5 of 6

SDS Revision Date: 5/1/2015

14. Transport information UN number: UN1017 UN proper shipping name: Chlorine Transport hazard class(es) DOT (Domestic Surface Transportation) **DOT Proper Shipping** Chlorine Name: **DOT Hazard Class** 2.3, (5.1, 8) DOT Label: 2.3, 5.1, 8 **UN / NA Number:** UN1017 **DOT Packing Group:** Not Applicable CERCLA/DOT RQ: 10 lbs.

IMDG Marine Pollutant: Yes (Chlorine)

Not Applicable

15. Regulatory information

Environmental hazards:

Special precautions for

Regula	atory Overvi	regulation	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory.								
WHMIS	Classificati	C - Oxidiz D1A - Poi tox	A - Compressed Gas C - Oxidizing Material D1A - Poisonous and Infectious Material; Materials causing immediate and serious toxic effects - Very toxic material E - Corrosive material								
OSHA	REGULATO STAT	This mate	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)							Standard	
US EPA Tier II Hazards:		rds:		Fire:	No	lmm	Immediate (Acute):			Yes	
		S	Sudden Release of Pressure:			Delayed (Chronic):		Yes			
			Reactive:								
SARA 302 Extremely Hazardous Substance / RQs (lbs.) :				Yes (10-lbs)							
SARA 311/312 Chemicals and RQs (lbs.) (>0.1%):			Yes								
SARA 313 (TRI) OSHA PSM (29 cfr 1910.119):				Yes							
				Yes (2500-lbs)							
				TSCA:	Chlorine						
State Regulations:	N.J. RTK S	ubstances (>1%)	Listed	Penn RT	(Substances (>1	1%)	Listed	California Prop 65		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: This is the first revision of this SDS format, changes from previous revision not applicable.

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.