


 <p>SHARJAH OXYGEN COMPANY</p> <p><b>SOC</b></p> <p>www.sharjahoxygen.com</p>	<h1>SAFETY DATA SHEET</h1> <h2>CHLORINE</h2>	SDS NO.	PG-012
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<b>1 – PRODUCT AND COMPANY IDENTIFICATION</b>	
<b>1.1 PRODUCT IDENTIFIER :</b>	
<b>1.1.1 PRODUCT NAME</b>	CHLORINE
<b>1.1.2 SYNONYMS</b>	Cl <sub>2</sub> ; Bertholite; Chloor; Chlor; Chlore; Chlorine mol.; Cloro; Molecular chlorine; UN 1017
<b>1.1.3 CAS NUMBER</b>	7782-50-5
<b>1.1.4 CHEMICAL FORMULA</b>	Cl <sub>2</sub>
<b>1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST :</b>	
<b>1.2.1 RELEVANT IDENTIFIED USES</b>	Synthetic/Analytical chemistry.
<b>1.2.2 USES ADVISED AGAINST</b>	N/A
<b>1.3 DETAILS OF THE SUPPLIER :</b>	
<b>1.3.1 COMPANY IDENTIFICATION</b>	Sharjah Oxygen Company
<b>1.4 EMERGENCY TELEPHONE NUMBER :</b>	
<b>1.4.1 EMERGENCY NUMBER(S)</b>	<b>PHONE</b> +971-6-5336481
<b>2 – HAZARD(S) IDENTIFICATION</b>	
<b>2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE :</b>	
OXIDIZING GASES - Category 1 GASES UNDER PRESSURE - Compressed gas ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1	

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<b>2.2 LABEL ELEMENTS :</b>	
<b>2.2.1 LABELING PICTOGRAMS</b>	
<b>2.2.2 SIGNAL WORD</b>	Danger
<b>2.2.3 HAZARD STATEMENT</b>	May cause or intensify fire; oxidizer. Contains gas under pressure; may explode if heated. May cause frostbite. Fatal if inhaled. Causes severe skin burns and eye damage. Corrosive to respiratory tract. Very toxic to aquatic life
<b>2.2.4 PRECAUTIONARY STATEMENT</b>	Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Open valve slowly. Use only with equipment cleaned for Oxygen service. Always keep container in upright position.
<b>2.3 OTHER HAZARDS :</b>	
In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.	

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### 3 – COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 SUBSTANCES :

<b>3.1.1</b>	<b>CHEMICAL IDENTITY OF THE SUBSTANCE</b>	Substance
<b>3.1.2</b>	<b>COMMON NAME(S)/SYNONYM(S)</b>	Cl <sub>2</sub> ; Bertholite; Chloor; Chlor; Chlore; Chlorine mol.; Cloro; Molecular chlorine; UN 1017
<b>3.1.3</b>	<b>CAS NO.</b>	7782-50-5
<b>3.1.4</b>	<b>IMPURITIES AND STABILIZING ADDITIVES WHICH ARE THEMSELVES CLASSIFIED AND WHICH CONTRIBUTE TO THE CLASSIFICATION OF THE SUBSTANCE</b>	There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### 3.2 MIXTURES :

Chlorine: 100%

### 4 – FIRST AID MEASURES

#### 4.1 DESCRIPTION OF FIRST AID MEASURES :

<b>4.1.1 INHALATION</b>	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention
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	immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband
<b>4.1.2 SKIN CONTACT</b>	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>4.1.3 EYE CONTACT</b>	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
<b>4.1.4 INGESTION</b>	As this product is a gas, refer to the inhalation section.
<b>4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED :</b>	
<b>4.2.1 ACUTE SYMPTOMS AND EFFECTS</b>	<b>Eye contact:</b> Causes serious eye damage. <b>Inhalation:</b> Fatal if inhaled. May cause respiratory irritation <b>Skin Contact:</b> Causes severe burns. <b>Frostbite:</b> Try to warm up the frozen tissues and seek medical attention. <b>Ingestion:</b> May cause burns to mouth, throat and stomach. As this product is gas, refer to the inhalation section.
<b>4.2.2 DELAYED SYMPTOMS AND EFFECTS</b>	<b>Eye contact:</b> Adverse symptoms may include the pain, watering, redness. <b>Inhalation:</b> Adverse symptoms may include the respiratory tract irritation, coughing <b>Skin Contact:</b> Adverse symptoms may include pain or irritation, redness, blistering may occur.

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	<b>Ingestion:</b> Adverse symptoms may include stomach pains.
<b>4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED :</b>  Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
<b>5 – FIRE FIGHTING MEASURES</b>	
<b>5.1 EXTINGUISHING MEDIA :</b>	
<b>5.1.1 SUITABLE EXTINGUISHING MEDIA</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>5.1.2 UNSUITABLE EXTINGUISHING MEDIA</b>	None known.
<b>5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL :</b>	
<b>5.2.1 DURING FIRE</b>	Contains gas under pressure. Oxidizing material. This material increases the risk of fire and may aid combustion. Contact with combustible material may cause fire. In a fire or if heated, a pressure increase will occur and the container may burst or explode. This material is very toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>5.2.2 DURING EXPLOSION</b>	N/A
<b>5.2.3 DURING REACTIVITY</b>	No reactivity hazard other than the effects described in sub-sections below.
<b>5.3 ADVICE FOR FIRE FIGHTERS :</b>	
<b>5.3.1 FIRE FIGHTING INSTRUCTIONS</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier

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	immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk.
<b>5.3.2 PROTECTION DURING FIRE FIGHTING</b>	DANGER! Toxic, corrosive, high-pressure gas
<b>5.3.3 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>6 – ACCIDENTAL RELEASE MEASURES</b>	
<b>6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES :</b>	
<b>6.1.1 GENERAL MEASURES</b>	DANGER: Oxidizing gas. Corrosive. Evacuate personnel to a safe area. Wear a self- contained breathing apparatus and appropriate personal protective equipment (PPE). (gas tight, chemical-protective) Approach suspected leak area with caution. Remove all sources of ignition. Toxic, corrosive vapor can spread from spill. Contact with flammable materials may cause fire or explosion. Ventilate area or move container to a well-ventilated area. Before entering the area, especially a confined area, check the atmosphere with an appropriate device. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous
<b>6.1.2 PROTECTIVE EQUIPMENT FOR NON-EMERGENCY PERSONNEL</b>	No additional information available
<b>6.1.3 PROTECTIVE EQUIPMENT FOR EMERGENCY RESPONDERS</b>	No additional information available

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### 6.2 ENVIRONMENTAL PRECAUTIONS :

Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP :

Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal

### 6.4 REFERENCE TO OTHER SECTION :

N/A

## 7 – HANDLING AND STORAGE

### 7.1 PRECAUTION FOR SAFE HANDLING :

Do not breathe gas/vapor. Avoid all contact with skin, eyes, or clothing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g, wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

### 7.2 CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES :

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7.2.1	<b>SAFE REQUIREMENTS</b>	<b>STORAGE</b>	Store in accordance with local regulations. Store in a segregated and approved area. Store locked up. Separate from acids, alkalis, reducing agents and combustibles. Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).
7.2.2	<b>KEEP AWAY FROM</b>		Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials
7.2.3	<b>SUITABLE MATERIAL</b>	<b>PACKAGING</b>	N/A
7.2.4	<b>NON-SUITABLE MATERIAL</b>	<b>PACKAGING</b>	N/A

## 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS :

#### 8.1.1 OCCUPATIONAL EXPOSURE:

Ingredient name	Exposure limits
chlorine	<b>ACGIH TLV (United States, 3/2012).</b> STEL: 2.9 mg/m <sup>3</sup> 15 minutes. STEL: 1 ppm 15 minutes. TWA: 1.5 mg/m <sup>3</sup> 8 hours. TWA: 0.5 ppm 8 hours. <b>NIOSH REL (United States, 1/2013).</b> CEIL: 1.45 mg/m <sup>3</sup> 15 minutes. CEIL: 0.5 ppm 15 minutes. <b>OSHA PEL (United States, 6/2010).</b> CEIL: 3 mg/m <sup>3</sup> CEIL: 1 ppm <b>OSHA PEL 1989 (United States, 3/1989).</b> STEL: 3 mg/m <sup>3</sup> 15 minutes. STEL: 1 ppm 15 minutes. TWA: 1.5 mg/m <sup>3</sup> 8 hours. TWA: 0.5 ppm 8 hours.

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<b>8.2 EXPOSURE CONTROLS :</b>	
<b>8.2.1 APPROPRIATE ENGINEERING CONTROLS</b>	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
<b>8.2.2 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT :</b>	
<b>8.2.2.1 RESPIRATORY PROTECTION</b>	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>8.2.2.2 HAND PROTECTION</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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<b>8.2.2.3 EYE PROTECTION</b>	<p>Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.</p>
<b>8.2.2.4 SKIN PROTECTION</b>	<p>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</p>
<b>8.3 ENVIRONMENTAL CONTROLS</b>	<b>EXPOSURE</b>
<p>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.</p>	
<b>9 – PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES :</b>	
<b>9.1.1 PHYSICAL STATE</b>	Gas
<b>9.1.2 APPEARANCE</b>	Greenish-yellow gas. Amber liquid (under pressure).
<b>9.1.3 MOLECULAR MASS</b>	71 g/mol
<b>9.1.4 COLOR</b>	Greenish gas.
<b>9.1.5 ODOR</b>	Pungent.
<b>9.1.6 ODOR THRESHOLD</b>	Odor threshold is subjective and inadequate to warn for overexposure. 0.23 mg/m <sup>3</sup> (Dixon and Ikels)
<b>9.1.7 PH</b>	Not applicable

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<b>9.1.8</b>	<b>RELATIVE EVAPORATION RATE</b>	N/A
<b>9.1.9</b>	<b>MELTING POINT</b>	-101 °C (-149.85°F)
<b>9.1.10</b>	<b>FREEZING POINT</b>	-101°C (-149.8°F)
<b>9.1.11</b>	<b>BOILING POINT</b>	-34.05 °C (-29.25°F)
<b>9.1.12</b>	<b>FLASH POINT</b>	Not applicable.
<b>9.1.13</b>	<b>CRITICAL TEMPERATURE</b>	144 °C
<b>9.1.14</b>	<b>AUTO-IGNITION TEMPERATURE</b>	Not applicable.
<b>9.1.15</b>	<b>DECOMPOSITION TEMPERATURE</b>	No data available
<b>9.1.16</b>	<b>FLAMMABILITY (SOLID/GAS)</b>	No data available
<b>9.1.17</b>	<b>VAPOR PRESSURE</b>	6.9 bar (100 psia) (@20°C [68°F])
<b>9.1.18</b>	<b>CRITICAL PRESSURE</b>	77.11 bar (1118.4 psia)
<b>9.1.19</b>	<b>RELATIVE VAPOR DENSITY</b>	N/A
<b>9.1.20</b>	<b>RELATIVE DENSITY</b>	1.6
<b>9.1.21</b>	<b>SPECIFIC GRAVITY/DENSITY</b>	N/A
<b>9.1.22</b>	<b>RELATIVE GAS DENSITY</b>	2.5
<b>9.1.23</b>	<b>SOLUBILITY</b>	Water: 8620 mg/l
<b>9.1.24</b>	<b>VISCOSITY, KINEMATIC</b>	Not applicable.
<b>9.1.25</b>	<b>VISCOSITY, DYNAMIC</b>	Not applicable.
<b>9.1.26</b>	<b>EXPLOSIVE PROPERTIES</b>	Not applicable.
<b>9.1.27</b>	<b>OXIDIZING PROPERTIES</b>	Oxidizer.

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<b>9.1.28 EXPLOSIVE LIMITS</b>	Nonflammable.						
<b>9.2 OTHER INFORMATION :</b>							
<b>9.2.1 GAS GROUP</b>	Liquefied gas						
<b>9.2.2 ADDITIONAL INFORMATION</b>	Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level						
<b>10 – STABILITY AND REACTIVITY</b>							
<b>10.1 REACTIVITY</b>	No reactivity hazard other than the effects described in sub-sections below.						
<b>10.2 CHEMICAL STABILITY</b>	Stable under normal conditions.						
<b>10.3 POSSIBILITY OF HAZARDOUS REACTION</b>	Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials Reactions may include the following: risk of causing fire						
<b>10.4 CONDITIONS TO AVOID</b>	Air contact. High temperature. Moisture. Incompatible materials						
<b>10.5 INCOMPATIBLE MATERIALS</b>	Extremely reactive or incompatible with the following materials: reducing materials, combustible materials, organic materials and alkalis						
<b>10.6 HAZARDOUS DECOMPOSITION PRODUCTS</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced						
<b>11 – TOXICOLOGICAL INFORMATION</b>							
<b>11.1 INFORMATION ON TOXICOLOGICAL EFFECTS :</b>							
<b>11.1.1 ACUTE TOXICITY</b>	Inhalation: gas: FATAL IF INHALED  <table border="1"> <thead> <tr> <th colspan="2">Chlorine ( f )7782-50-5</th> </tr> </thead> <tbody> <tr> <td>LC50 inhalation rat (ppm)</td> <td>146.5 ppm/4h</td> </tr> <tr> <td>ATE US (gases)</td> <td>146.500 ppmV/4h</td> </tr> </tbody> </table>	Chlorine ( f )7782-50-5		LC50 inhalation rat (ppm)	146.5 ppm/4h	ATE US (gases)	146.500 ppmV/4h
Chlorine ( f )7782-50-5							
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<b>11.1.2 CORROSION/ IRRITATION</b>	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.  pH: Not applicable.								
<b>11.1.3 RESPIRATORY/SKIN SENSITIZATION</b>	Not classified								
<b>11.1.4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)</b>	MAY CAUSE RESPIRATORY IRRITATION								
<b>11.1.5 MUTAGENICITY</b>	Not available.								
<b>11.1.6 CARCINOGENICITY</b>	Not available.								
<b>11.1.7 REPRODUCTIVE TOXICITY</b>	Not available.								
<b>11.1.8 CHRONIC EFFECTS FROM SHORT TERM AND LONG TERM EXPOSURE</b>	Not available.								
<b>12 – ECOLOGICAL INFORMATION</b>									
<b>12.1 TOXICITY</b>	<p>Ecology – general: VERY TOXIC TO AQUATIC LIFE.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="background-color: #e1eef6;">Chlorine (7782-50-5)</th> </tr> </thead> <tbody> <tr> <td style="width: 30%;">LC50 fish 1</td> <td>0.44 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])</td> </tr> <tr> <td>EC50 Daphnia 1</td> <td>0.017 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td> </tr> <tr> <td>LC50 fish 2</td> <td>0.014 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])</td> </tr> </tbody> </table>	Chlorine (7782-50-5)		LC50 fish 1	0.44 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])	EC50 Daphnia 1	0.017 mg/l (Exposure time: 48 h - Species: Daphnia magna)	LC50 fish 2	0.014 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
Chlorine (7782-50-5)									
LC50 fish 1	0.44 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])								
EC50 Daphnia 1	0.017 mg/l (Exposure time: 48 h - Species: Daphnia magna)								
LC50 fish 2	0.014 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])								
<b>12.2 PERSISTENCE AND DEGRADABILITY</b>	Not available.								
<b>12.3 BIO ACCUMULATIVE POTENTIAL</b>	Not available.								
<b>12.4 MOBILITY IN SOIL</b>	No data available.								

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<b>12.5 OTHER ADVERSE EFFECTS :</b>	
<b>12.5.1 GLOBAL WARMING POTENTIAL (GWP)</b>	N/A
<b>12.5.2 OZONE DEPLETING POTENTIAL (ODP)</b>	N/A
<b>13 – DISPOSAL CONSIDERATIONS</b>	
<b>13.1 WASTE TREATMENT METHODS :</b>	
<b>13.1.1 PROVISION RELATING TO WASTE</b>	N/A
<b>13.1.2 DISPOSAL METHODS</b>	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.
<b>13.1.3 PACKAGING/ CONTAINER</b>	N/A
<b>14 – TRANSPORT INFORMATION</b>	
<b>14.1 ROAD (ADR) :</b>	
<b>14.1.1 UN NUMBER</b>	UN1017

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<b>14.1.2</b>	<b>UN PROPER SHIPPING NAME</b>	CHLORINE
<b>14.1.3</b>	<b>TRANSPORT HAZARD CLASS (ES) :</b>	
	<b>14.1.3.1 HAZARD IDENTIFICATION NUMBER</b>	265
<b>14.1.4</b>	<b>CLASS</b>	
	<b>14.1.4.1 CLASSIFICATION CODE</b>	2TOC
<b>14.1.5</b>	<b>PACKING GROUP :</b>	
	<b>14.1.5.1 PACKING GROUP</b>	-
	<b>14.1.5.2 LABELS</b>	
<b>14.1.6</b>	<b>ENVIRONMENTAL HAZARDS :</b>	
	<b>14.1.6.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK</b>	The marine pollutant mark is not required when transported by road or rail.
<b>14.1.7</b>	<b>SPECIAL PRECAUTIONS FOR USER :</b>	
	<b>14.1.7.1 SPECIAL PROVISIONS</b>	N/A
	<b>14.1.7.2 LIMITED QUANTITIES</b>	Explosive Limit and Limited Quantity Index 0 Passenger Carrying Road or Rail Index Forbidden
<b>14.2</b>	<b>INLAND WATERWAYS (ADN) :</b>	
<b>14.2.1</b>	<b>UN NUMBER</b>	N/A
<b>14.2.2</b>	<b>UN PROPER SHIPPING NAME</b>	N/A
<b>14.2.3</b>	<b>TRANSPORT HAZARD CLASS (ES) :</b>	


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<b>14.2.3.1 HAZARD IDENTIFICATION NUMBER</b>	N/A
<b>14.2.3.2 CLASS</b>	N/A
<b>14.2.3.3 CLASSIFICATION CODE</b>	N/A
<b>14.2.4 PACKING GROUP :</b>	
<b>14.2.4.1 PACKING GROUP</b>	N/A
<b>14.2.4.2 LABELS</b>	N/A
<b>14.2.5 ENVIRONMENTAL HAZARDS :</b>	
<b>14.2.5.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK</b>	N/A
<b>14.2.6 SPECIAL PRECAUTIONS FOR USER :</b>	
<b>14.2.6.1 SPECIAL PROVISIONS</b>	N/A
<b>14.2.6.2 LIMITED QUANTITIES</b>	N/A
<b>14.3 SEA (IMDG/IMSBC) :</b>	
<b>14.3.1 UN NUMBER</b>	UN1017
<b>14.3.2 UN PROPER SHIPPING NAME</b>	CHLORINE
<b>14.3.3 TRANSPORT HAZARD CLASS (ES) :</b>	
<b>14.3.3.1 HAZARD IDENTIFICATION NUMBER</b>	265
<b>14.3.3.2 CLASS</b>	2.3 (5.1, 8)


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<b>14.3.3.3 CLASSIFICATION CODE</b>	N/A
<b>14.3.4 PACKING GROUP :</b>	
<b>14.3.4.1 PACKING GROUP</b>	N/A
<b>14.3.4.2 LABELS</b>	
<b>14.3.5 ENVIRONMENTAL HAZARDS :</b>	
<b>14.3.5.1 MARINE POLLUTANT</b>	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
<b>14.3.5.2 ENVIRONMENTALLY HAZARDOUS SUBSTANCE MARK</b>	N/A
<b>14.3.6 SPECIAL PRECAUTIONS FOR USER :</b>	
<b>14.3.6.1 SPECIAL PROVISIONS</b>	N/A
<b>14.3.6.2 LIMITED QUANTITIES</b>	N/A
<b>14.3.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE :</b>	
<b>14.3.7.1 ANNEX II OF MARPOL 73/78</b>	Not available.
<b>14.4 AIR (ICAO-TI/IATA-DGR) :</b>	
<b>14.4.1 UN NUMBER</b>	UN1017
<b>14.4.2 UN PROPER SHIPPING NAME</b>	CHLORINE
<b>14.4.3 TRANSPORT HAZARD CLASS (ES) :</b>	
<b>14.4.3.1 CLASS</b>	2.3 (8)
<b>14.4.4 PACKING GROUP :</b>	
<b>14.4.4.1 PACKING GROUP</b>	-

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14.4.4.2 LABELS	
<b>14.4.5 ENVIRONMENTAL HAZARDS :</b>	
<b>14.4.5.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK</b>	The environmentally hazardous substance mark may appear if required by other transportation regulations.
<b>14.4.6 SPECIAL PRECAUTIONS FOR USER :</b>	
<b>14.4.6.1 SPECIAL PROVISIONS</b>	N/A
<b>14.4.6.2 PASSENGER AND CARGO TRANSPORT, LIMITED QUANTITIES, MAXIMUM QUANTITY PER PACKAGING</b>	<u>Passenger and Cargo Aircraft</u> Quantity limitation: 0 Forbidden  <u>Cargo Aircraft Only</u> Quantity limitation: 0 Forbidden
<b>15 – REGULATORY INFORMATION</b>	
<b>15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE</b>	<b>EU-Regulations</b> Restrictions on use: None. Seveso directive 96/82/EC: Listed.  <b>National regulations</b> National legislation: Ensure all national/local regulations are observed. Water hazard class (WGK): - Kenn-Nr. : 223
<b>15.2 CHEMICAL SAFETY ASSESSMENT</b>	A CSA has been carried out.
<b>16 – OTHER INFORMATION :</b>	
Users of breathing apparatus must be trained. Ensure operators understand the toxicity hazard.	

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