

Chlorine

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Chlorine**

Other means of identification : 1001004

Recommended use of the chemical and restrictions on use

: Disinfection of Drinking Water, Sewage & Wastewater Effluent Treatment ;

Restrictions on use None known.

Chemical family

: Halogens.

Name, address, and telephone number
of the supplier:

JCI Jones Chemicals Inc.

1765 Ringling Boulevard

Sarasota, FL, USA

34236

Supplier's Telephone #

: 1-800-477-1078

24 Hr. Emergency Tel #

: CHEMTREC (USA): 1-800-424-9300

CHEMTREC (CANADA): 1-800-567-7455

Name, address, and telephone number of
the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) and Canadian WHMIS regulations (Hazardous Products Regulations).

Hazard classification:

Skin Corrosion/Irritation - Category 1

Serious eye damage/eye irritation - Category 1

Oxidizing Gases - Category 1

Gases under pressure - Liquefied gas

Acute toxicity, inhalation - Category 2

Specific target organ toxicity, single exposure - Category 3 (respiratory)

Label elements

Hazard pictogram(s)



Signal Word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage.

May cause or intensify fire; oxidizer.

Contains gas under pressure; may explode if heated.

Fatal if inhaled.

May cause respiratory irritation.

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Precautionary statement(s)

Do not breathe fumes, mists or vapors. Use only outdoors or in a well-ventilated area.
Wear protective gloves, clothing and eye, face protection. Wear respiratory protection.
Wash hands and face thoroughly after handling. Keep away from clothing and other combustible materials. Keep valves and fittings free from oil and grease.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTRE or doctor. Specific treatment is urgent (see this label).
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
In case of fire: Stop leak if safe to do so.

Store locked up. Store in a well-ventilated place. Protect from sunlight. Keep container tightly closed.

Dispose of contents or container in accordance with local, regional, national, international regulations.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Chlorine	Dichlorine	7782-50-5	98.0 - 100.0

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Ingestion is not an applicable route of exposure for gases. If ingestion of a large amount does occur, call a poison control center immediately.
- Inhalation* : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment is urgent (see this label).
- Skin contact* : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Most important symptoms and effects, both acute and delayed

- : Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage. Chemical burns, corneal damage, and possibly blindness can result from direct contact. Causes skin burns. Symptoms may include redness, blistering, pain and swelling. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. May cause irritation of the nose, throat, mucous membranes, and respiratory tract.

Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Liquefied gas can cause frostbite and corrosive injury to the eyes and skin. Burns and permanent damage, including blindness may result.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

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Suitable extinguishing media

- : Chlorine does not burn. Use extinguishing media suitable for surrounding fire conditions, such as dry chemical powder, carbon dioxide, or foam.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Chlorine does not burn. However, chlorine is a strong oxidizing agent and is a supporter of combustion and can intensify a fire. It poses a serious fire and explosion risk due to its high reactivity. Most combustible materials will ignite and/or burn in chlorine atmospheres, forming irritating and toxic gases. Chlorine gas is heavier than air and will collect and persist in pits, hollows, depressions, and other confined or low-lying areas.

Flammability classification (OSHA 29 CFR 1910.106)

- : Not flammable.

Hazardous combustion products

- : May include and are not limited to: Corrosive hydrogen chloride, hydrochloric acid and hypochlorous acid.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Chlorine is an extremely hazardous and corrosive gas. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

Special fire-fighting procedures

- : Use extreme caution. Evacuate area and downwind locations. Fight fire from a safe distance or a protected explosion-resistant location or maximum possible distance. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. If possible, isolate chlorine cylinders or containers exposed to heat, but not yet involved in the fire and protect personnel. Otherwise, move cylinders or containers from the fire area if this can be done without risk. Use extreme caution since heat may rupture containers, which may rocket. Use water spray to keep fire-exposed cylinders, containers, tanks, equipment or pipelines cool. Cooling should begin as soon as possible (within several minutes) and should concentrate on any unwetted portions of the container. Apply water from as far a distance as possible until well after the fire is out. Stay away from ends of tanks (but realize that shrapnel may travel in any direction). Withdraw immediately in case of rising sound from venting safety device or any discolouration of cylinders or tanks due to fire. Tanks or cylinders should not be approached directly after they have been involved in a fire, until they have been completely cooled down. Handle damaged cylinders with extreme care. If there is a chlorine gas leak, stop or control the flow of gas, if this can be done safely. Use water spray to protect personnel attempting to shut off the flow. Take care not to block pressure relief valves. Dike fire control water for appropriate disposal. Remove all flammable and combustible materials from the vicinity, especially oil and grease. Use vapour suppression foam to limit offgassing from liquid release. In an advanced or massive fire, the area should be evacuated; use unmanned hoseholders or monitor nozzles.
After the fire has been extinguished, toxic atmospheres may linger. Before entering such an area especially confined areas, while wearing full protective gear, check the atmosphere with an appropriate monitoring device.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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- Environmental precautions** :
- : EVACUATE ALL PERSONNEL FROM AFFECTED AREA. Restrict access to area until completion of clean-up. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to protective measures listed in sections 7 and 8.
 - : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
- Methods and material for containment and cleaning up**
- : Stop leak if you can do so without risk. Ventilate the area. Remove all sources of ignition. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Place in clean, dry and labeled containers. Refer to Section 13 for disposal of contaminated material. Contact the proper local authorities.
- Special spill response procedures**
- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802).

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Wear protective gloves, clothing and eye, face protection. Use only in well-ventilated areas. Keep away from extreme heat and flame. Do not breathe mists, vapours or sprays. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Keep only in original container. Keep away from incompatibles. Keep containers closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
- Conditions for safe storage** :
- : Store locked up. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking. Inspect periodically for damage or leaks. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.
- Incompatible materials** :
- : Incompatible with strong acids and oxidizing agents. Chlorine reacts with water to form a weak, highly corrosive solutions of hydrochloric acid and hypochlorous acid, which can decompose to hydrochloric acid and oxygen.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>			
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u> <u>STEL</u>
Chlorine	0.1 ppm (0.29mg/m ³)	0.4 ppm (1.16mg/m ³)	1 ppm (3 mg/m ³) Not available.

Exposure controls

Ventilation and engineering measures

- : Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

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- Respiratory protection** : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.
- Skin protection** : Wear protective gloves/clothing. Impervious gloves must be worn when using this product. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear impervious clothing to prevent skin contact. Wear chemically protective gloves (impervious), boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.
- Eye / face protection** : Wear eye and face protection. Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary.
- Other protective equipment** : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.
- General hygiene considerations** : Do not breathe mists, vapours or sprays. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical State** : Liquefied gas
- Colour** : Yellow, green
- Odour** : Pungent.
- Odour threshold** : 1.7 ppm
- pH** : Not available.
- Melting Point/Freezing point** : -149.8 °F (-101 °C) (1 atm)
- Initial boiling point and boiling range** : -29.27 °F (-34.04 °C) (1 atm)
- Flash point** : Not available.
- Flashpoint (Method)** : Not applicable.
- Evaporation rate (BuAe = 1)** : Not applicable.
- Flammability** : Not applicable.
- Lower explosion or flammability limit (% by vol.)** : Not applicable.
- Upper explosion or flammability limit (% by vol.)** : Not applicable.
- Oxidizing properties** : Oxidizer, contact with other materials may cause fire.
- Explosive properties** : Not explosive
- Vapour pressure** : 113 psia (25°C/77°F)
779 kPa (25 °C/77 °F)
4800 mm Hg (25°C/77°F)
- Relative vapour density** : 2.5
- Relative density / Specific gravity** : 0.76 lb/ft³ 32 °F (0 °C) 53.51 psia
- Solubility in water** : 0.73 g/100g H2O (20°C/68°F) (760 mm Hg)
- Other solubility(ies)** : Not available.
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- Viscosity** : Not available.

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Particle characteristics : Not applicable.
Volatiles (% by weight) : Not available.
Volatile organic Compounds (VOC's)
: Not available.
Absolute pressure of container
: Not applicable.
Flame projection length : Not applicable.
Other physical/chemical comments
: Heat of vaporization: 123.9 BTU/lb

SECTION 10. STABILITY AND REACTIVITY

Reactivity : The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability : Contents under pressure. Stable under normal conditions.
Possibility of hazardous reactions
: No dangerous reaction known under conditions of normal use.
Liquefied chlorine can react violently, explosively or ignite on contact with carbon disulfide and iron, bismuth, dibutyl phthalate, drawing wax, gasoline, glycerol, linseed oil, natural and synthetic rubbers, white phosphorus, polydimethylsiloxane, silicones, sodium hydroxide, tin, titanium and vanadium powder.
Conditions to avoid : Chlorine reacts with water to form a weak, highly corrosive solutions of hydrochloric acid and hypochlorous acid, which can decompose to hydrochloric acid and oxygen.
Incompatible materials : Strong acids and oxidizing agents Water. Alcohols. Ammonia
Hazardous decomposition products
: May include and are not limited to: Corrosive hydrogen chloride, hydrochloric acid and hypochlorous acid.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption
: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Fatal if inhaled. Causes lung injury--effects may be delayed. A severe, short-term exposure may cause long-lasting respiratory effects, e.g. Reactive Airways Dysfunction (RADS). Inhalation of mists or sprays may mildly irritate the upper respiratory tract and cause coughing or sneezing.

Sign and symptoms ingestion

: Ingestion is not an applicable route of exposure for gases.

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- Sign and symptoms skin** : Causes skin burns. Symptoms may include redness, blistering, pain and swelling. Liquefied gas can cause frostbite and corrosive injury to the skin. Burns and permanent damage may result. Symptoms of mild frostbite include numbness, prickling and itching in the affected area. Symptoms of more severe frostbite include a burning sensation and stiffness of the affected area. The skin may become waxy white or yellow. Blistering, tissue death and gangrene may also develop in severe cases. Permanent scarring of the skin may result.
- Sign and symptoms eyes** : Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage. Chemical burns, corneal damage, and possibly blindness can result from direct contact. Liquefied gas can cause frostbite and corrosive injury to the eyes. Burns and permanent damage, including blindness may result. Direct contact with liquefied chlorine escaping from its pressurized cylinder may cause frostbite and corrosive injury. Burns and permanent damage, including blindness may result.

Potential Chronic Health Effects

- : Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Mutagenicity

- : Not expected to be mutagenic in humans.

Carcinogenicity

- : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

- : Not expected to cause reproductive effects.

Sensitization to material

- : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects

- : Target Organs: Eyes, skin, respiratory system and digestive system.

Medical conditions aggravated by overexposure

- : Pre-existing skin, eye and respiratory disorders.

Synergistic materials

- : No information available.

Toxicological data

- : Migrated information: read-across from supporting substance (structural analogue or surrogate) for Dermal LD50.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Chlorine	0.65 mg/m ³ air, 4 hr (ECHA)	Not available.	>20000 mg/kg (ECHA)

Other important toxicological hazards

- : None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

- : Very toxic to aquatic life. Avoid release to the environment.

See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS #</u>	<u>Toxicity to Fish</u>		
		<u>LC₅₀ / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Chlorine	7782-50-5	0.014mg/L	Not available.	10

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<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Chlorine	7782-50-5	0.085 mg/L	Not available.	10

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Chlorine	7782-50-5	Not available.	Not available.	None.

Persistence and degradability

: There is no data available for this product.

Bioaccumulation potential

: There is no data available for this product.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Chlorine (CAS 7782-50-5)	Not applicable.	no bioaccumulation expected

Mobility in soil

: There is no data available for this product.

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Handle in accordance with good industrial hygiene and safety practice. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA

: It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
ICAO/IATA	UN1017	CHLORINE	Forbidden.	Forbidden	Forbidden.
ICAO/IATA Additional information	Forbidden.				
IMDG	UN1017	CHLORINE	2.3 (5.1,8)	none	 
IMDG Additional information	Refer to the IMDG regulations for further information.				
49CFR/DOT	UN1017	CHLORINE	2.3 (5.1,8)	none	 
49CFR/DOT Additional information	Refer to 49 CFR/DOT regulations for further information.				

Special precautions for user : Appropriate advice on safety must accompany the package.

Environmental hazards : Marine pollutant

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	de Minimis Concentration
Chlorine	7782-50-5	Yes	10 lb/ 4.54 kg	100 lb TPQ	Yes	1%

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: ;Skin corrosion; Eye Damage
Respiratory Tract Oxidizer Toxic

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Chlorine	7782-50-5	No	Not applicable.	Yes	Yes	Yes	Yes	Yes	Yes

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Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

US Information:

USEPA Registration Number: 1744-10

ANSI/NSF Standard 60 Certified Maximum Use Level: 30 mg/L

AWWA Standard: AWWA B301-18

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CSA: Canadian Standards Association
DOT: Department of Transportation
EC50: Effective Concentration 50%
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organisation
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
N/Ap: Not Applicable
N/Av: Not Available
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

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- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
 2. ECHA - European Chemical Agency
 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases
 4. Safety Data Sheets from manufacturer.
 5. US EPA Title III List of Lists
 6. California Proposition 65 List
 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p><u>Prepared for:</u> JCI Jones Chemicals Inc. 1765 Ringling Boulevard Sarasota, FL 34236 USA</p>	
<p><u>Prepared by:</u> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	

DISCLAIMER

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