



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name **Chlor 6**
Product use Sanitizer.
Product code **7006**
Date of issue **07/07/11** **Supersedes 08/12/08**

Emergency Telephone Numbers

For MSDS Information:
 Technical Services Group
 Telephone (780) 453-8100
 (Business Hours 8:00am - 5:00pm)

For Medical or Transportation Emergency
 CANUTEC (24 Hours)
 (613) 996-6666 - Call Collect

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Section 2. Hazards Identification

Emergency overview

Avoid contact with eyes, skin and clothing.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Eye contact Dermal contact. Inhalation.

Eyes Severely corrosive to the eyes. Causes severe burns. Direct contact with the eyes can cause irreversible damage, including blindness.

Skin Severely corrosive to the skin. Causes severe burns. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation Inhalation of the spray or mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Liquid, spray or mist may produce tissue damage, particularly to mucous membranes of eyes, mouth and respiratory tract.

Ingestion Harmful if swallowed. May cause burns to mouth, throat and stomach.

Chronic effects

Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes.
 Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

CAS number

% by Weight

SODIUM HYPOCHLORITE; hypochlorous acid, sodium salt; bleach	7681-52-9	5 - 10
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Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not applicable.
Flammable Limits	Not applicable.
Flammability	Non-flammable.
Auto-ignition Temperature	
Fire-Fighting Procedures	Use an extinguishing agent suitable for the surrounding fire. Use flooding quantities of water. Wear special protective clothing and positive pressure, self-contained breathing apparatus.
Fire hazard	In a fire or if heated, a pressure increase will occur and the container may burst.
Products of Combustion	Thermal decomposition may release toxic and/or hazardous gases. carbon oxides (CO, CO ₂) Chlorine. Hydrogen chloride (HCl). Phosgene gas.
Explosion hazard	Not available.

Section 6. Accidental Release Measures

Spill Clean up	Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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Section 7. Handling and Storage

Handling	Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Do not use with other products. Apply this product only as specified on the label. Wash thoroughly after handling.
Storage	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection**Product name**

Sodium hypochlorite solution Cl active

Exposure limits**AIHA WEEL (United States, 1/2009).**STEL: 2 mg/m³ 15 minute(s).**ACGIH TLV (United States).**TWA: 0.5 ppm 8 hour(s). Form: As Cl₂STEL: 1 ppm 15 minute(s). Form: As Cl₂**OSHA PEL 1989 (United States).**TWA: 1 ppm 8 hour(s). Form: As Cl₂STEL: 3 ppm 15 minute(s). Form: As Cl₂**Personal Protective Equipment (PPE)****Eyes** Face shield. Splash goggles.**Hands and Body** Chemical-resistant apron. Neoprene gloves. Rubber gloves.**Respiratory** Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.**Section 9. Physical and Chemical Properties**

Physical State	Liquid.	Color	Light Yellow - Green.
pH	11.5 - 12.5	Odor	Bleach-like Odor
Boiling Point	102°C (215.6°F)	Vapor Pressure	3.3 kPa (25 mm Hg)
Specific Gravity	1.085	Vapor Density	Not determined.
Solubility	Easily soluble in the following materials: cold water and hot water.	Evaporation Rate	1 (Water = 1)
Freezing Point		VOC (Consumer)	0 % (w/w)

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive or incompatible with the following materials: organic materials and acids. Ammonia.
Hazardous Polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Acute Toxicity

Sodium hypochlorite solution Cl active	LC50 Inhalation Vapor	Rat	>10.5 mg/L	0.25 hours
	LD50 Dermal	Rabbit	>10000 mg/kg	-
	LD50 Oral	Rat	8910 mg/kg	-

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Sodium hypochlorite solution Cl active	-	Acute EC50 2.3 ppm Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute EC50 1.7 ppm Fresh water	Daphnia - Water flea - Daphnia magna - 24 hours	48 hours
	-	Acute EC50 1.57 ppm Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute EC50 0.17 ppm Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute EC50 0.04 ppm Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute LC50 5.9 mg/L	Fish - Minnows	96 hours
	-	Acute LC50 56400 ug/L Marine water	Crustaceans - Daggerblade grass shrimp - Palaemonetes pugio	48 hours
	-	Acute LC50 71 ug/L Marine water	Fish - Shiner perch - Cymatogaster aggregata - Adult	96 hours
	-	Acute LC50 70 ug/L Fresh water	Fish - Channel catfish - Ictalurus punctatus - Fingerling - 6 to 10 cm	96 hours
	-	Acute LC50 65 ug/L Marine water	Fish - Pacific herring - Clupea pallasii - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	-	Acute LC50 59 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 15 days - 24 mm - 98 mg	96 hours
	-	Acute LC50 55 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute LC50 54 ug/L Marine water	Fish - Tidewater silverside - Menidia peninsulae - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	-	Acute LC50 38 to 65 ug/L Marine water	Fish - Chinook salmon - Oncorhynchus tshawytscha - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	-	Acute LC50 32 ug/L Marine water	Fish - Coho salmon,silver salmon - Oncorhynchus kisutch - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	-	Acute LC50 32 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
-	Acute LC50 30 to 190	Fish - Rainbow	96 hours	

-	ug/L Fresh water	trout,donaldson trout - Oncorhynchus mykiss - 160 mm	96 hours
-	Acute LC50 30 to 70 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 25 to 35 mm	96 hours
-	Acute LC50 23 to 52 ug/L Marine water	Fish - Pink salmon - Oncorhynchus gorbuscha - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

Waste Stream Not available.

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	Not regulated.		-	-		-
IMDG Class						-

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG* : Packing group

Section 15. Regulatory Information

Canada

WHMIS (Canada)

Class C: Oxidizing material.
Class E: Corrosive material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.