

SAFETY DATA SHEET



Date Issued : 1/16/2014
SDS No : 1F.60

Chlor Concentrate

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Chlor Concentrate
GENERAL USE: Disinfectant
PRODUCT DESCRIPTION: Disinfectant
PRODUCT CODE: 1F.60
PRODUCT FORMULATION NAME: NaOCl

MANUFACTURER

Centraz Industries Inc.
4051 BINGHAM AVE
ST. LOUIS, MO 63116
Service Number: 314-752-7627

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical) : (877) 800-5553
CHEMTREC (US Transportation) : (800) 424-9300

EPA REG. NO.: 9616-8-9194

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Corrosion, Category 1
Skin Irritation, Category 1B
Serious Eye Damage, Category 1
Eye Irritation, Category 1
Target Organ Toxicity (Single exposure), Category 2

Environmental:

Acute Hazards to the Aquatic Environment, Category 1
Chronic Hazards to the Aquatic Environment, Category 1

Physical:

Corrosive to Metals, Category 1
Oxidizing Liquids, Category 2

GHS LABEL



Corrosion



Environment



Flame over
circle



Health
hazard

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage.
H371: May cause damage to organs [or state all organs affected, if known] [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard].
H410: Very toxic to aquatic life with long lasting effects.
H272: May intensify fire; oxidizer.
H290: May be corrosive to metals.

PRECAUTIONARY STATEMENTS

General:

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P306+P360: IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P363: Wash contaminated clothing before reuse.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P264: Wash face, hands, and any exposed skin thoroughly after handling.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P270: Do not eat, drink or smoke when using this product.

P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

P405: Store locked up.

P501: Dispose of contents/container to industrial incineration plant

P334: Immerse in cool water/wrap in wet bandages.

P390: Absorb spillage to prevent material damage.

P406: Store in corrosive resistant aluminum container with a resistant inner liner.

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P220: Keep/Store away from clothing/.../combustible materials.

P221: Take any precaution to avoid mixing with combustibles...

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Hypochlorous Acid, Sodium Salt	12	7681-52-9
Sodium Chloride	7	7647-14-5
Sodium Hydroxide	1	1310-73-2
Water	0	7732-18-5

COMMENTS: Water is balance

4. FIRST AID MEASURES

EYES: Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.

SKIN: Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

INGESTION: Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.

INHALATION: Move to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

NOTES TO PHYSICIAN: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rates, frothy sputum, and high pulse pressure. Treat Symptomatically.

ADDITIONAL INFORMATION: Self-protection of First Aider: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

COMMENTS: Immediate Medical Attention is required

5. FIRE FIGHTING MEASURES

FLAME PROPAGATION OR BURNING RATE OF SOLIDS: Not Flammable; Highly exothermic reactions with organic materials and oxidizable materials may cause fires in adjacent, heat sensitive materials

GENERAL HAZARD: The product causes burns of eyes, skin and mucous membranes; Thermal decomposition can lead to release of irritating and toxic gases and vapors; In the event of fire and/or explosion do not breathe fumes.

EXTINGUISHING MEDIA: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment; Water spray may be used to keep fire exposed containers cool.

EXPLOSION HAZARDS: Containers of this material can explode as oxygen is liberated under high heat or fire conditions. Reacts to form explosive products with amines, ammonia, or ammonium salts, methanol, aziridine. Explosive reaction with formic acid (@ 55 Dgr. C), phenyl acetonitrile, ethylene amine.

FIRE FIGHTING EQUIPMENT: In the event of a fire, wear full protective clothing and MSHA/NOISH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Soak up with inert absorbent material. Clean contaminated surface thoroughly. Dike far ahead of liquid spill for later disposal. Take up mechanically, placing in appropriate containers for disposal. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

LARGE SPILL: Soak up with inert absorbent material. Clean contaminated surface thoroughly. Dike far ahead of liquid spill for later disposal. Take up mechanically, placing in appropriate containers for disposal. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

GENERAL PROCEDURES: Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak

7. HANDLING AND STORAGE

HANDLING: Use personal protective equipment as required. Use only with adequate ventilation. Avoid contact with skin, eyes, or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

STORAGE: Keep container tightly closed in a dry and well-ventilated place. KEEP OUT OF REACH OF CHILDREN. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

COMMENTS: Incompatible Materials: Strong acids and bases; Oxidizing agents; Ether, ammonia compounds, hydrogen peroxide, all acids, alum, reducing agents, human or animal waste, oxidizable or combustible materials such as wood, cloth or organic materials, organic chemicals such as solvents and solvent based cleaning compounds, fuels and fuel oils, amines, methanol, propane, organic polymers, ethylene glycol, insecticides, heavy metals such as iron, copper, magnesium, aluminum, tin, steel, stainless steel, carbon steel, manganese, zinc, chromium, nickel, cobalt and their alloys, sodium sulfite, sodium bisulfite, sodium hydrosulfite, sodium thiosulfate. Do not mix this product with any of the foregoing or hazardous gases can result.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Hypochlorous Acid, Sodium Salt	TWA			NL	NL
	STEL			NL	NL
Sodium Hydroxide	TWA		2	NL	NL
	STEL			NL	NL

ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Tight sealing safety goggles. Face protection shield.

SKIN: Gloves made of plastic or rubber. Rubber boots. Suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant clothing such as gloves, apron, boots, or whole bodysuits made from neoprene, as appropriate

WORK HYGIENIC PRACTICES: When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Pungent, Chlorine Bleach odor

ODOR THRESHOLD: No information Available

APPEARANCE: Aqueous Solution

COLOR: Clear Yellow

PHYSICAL STATE COMMENTS: Liquid

pH: 13 No information Available

PERCENT VOLATILE: No information Available

FLASH POINT AND METHOD: No information Available

FLAMMABLE LIMITS: No information Available

AUTOIGNITION TEMPERATURE: No information Available

VAPOR PRESSURE: 65.8 at 55 °C

VAPOR DENSITY: No information Available

BOILING POINT: 10.6°C (222°F)

FREEZING POINT: -18°C (-1°F)

MELTING POINT: No information Available

POUR POINT: No information Available

SOLUBILITY IN WATER: 100% Soluble

EVAPORATION RATE: No information Available

DENSITY: No information Available

SPECIFIC GRAVITY: 1.17

VISCOSITY #1: 1.53 Centistokes at (77 °F)

MOLECULAR WEIGHT: 74.45

(VOC): No information Available

COEFF. OIL/WATER: No information Available

OXIDIZING PROPERTIES: No information Available

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use and storage; Stability decreases with increased concentration, heat, light exposure, decrease in pH and contamination with heavy metals such as nickel, cobalt, copper and iron.

POLYMERIZATION: No information Available

CONDITIONS TO AVOID: Exposure to air or moisture over prolonged periods; Excessive heat, exposure to light, reduce alkalinity, and contamination of any kind. Reduced alkalinity or contamination can result in evolution of chlorine (toxic) gas. Decrease in pH such as by mixing with other than water, and contamination with items mentioned below is incompatible can result in evolution of chlorine (toxic) gas.

POSSIBILITY OF HAZARDOUS REACTIONS: None under normal processing

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can lead to release of irritating and toxic gases and vapors

INCOMPATIBLE MATERIALS: Strong acids and bases; Oxidizing agents; Ether, ammonia compounds, hydrogen peroxide, all acids, alum, reducing agents, human or animal waste, oxidizable or combustible materials such as wood, cloth or organic materials, organic chemicals such as solvents and solvent based cleaning compounds, fuels and fuel oils, amines, methanol, propane, organic polymers, ethylene glycol, insecticides, heavy metals such as iron, copper, magnesium, aluminum, tin, steel, stainless steel, carbon steel, manganese, zinc, chromium, nickel, cobalt and their alloys, sodium sulfite, sodium bisulfite, sodium hydrosulfite, sodium thiosulfate. Do not mix this product with any of the foregoing or hazardous gases can result.

11. TOXICOLOGICAL INFORMATION

ACUTE

NOTES: 0% of the mixture consists of ingredients of unknown toxicity

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	LC ₅₀ (Lethal Concentration):
Water	90 mL/kg (Rat)		
Sodium hypochlorite	8200 mg/kg (Rat)	10000 mg/kg (Rabbit)	
Sodium Chloride	3 g/kg (Rat)	10 g/kg (Rabbit)	42 g/m ³ (Rat) 1 h
Sodium Hydroxide		1350 mg/kg (Rabbit)	

CHRONIC: This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B)

CARCINOGENICITY

IARC:

Chemical Name	IARC
Sodium Hypochlorite	Group 3

Not classifiable as a human carcinogen

TARGET ORGANS: Eyes, Respiratory system, Skin

12. ECOLOGICAL INFORMATION

BIOACCUMULATION/ACCUMULATION: No information Available

AQUATIC TOXICITY (ACUTE): 0% of the mixture consists of components of unknown hazards to the aquatic environment

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Sodium Hypochlorite	0.095: 24 h Skeletonema costatum mg/L EC50	0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through 4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static 0.4- 0.8: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static	2.1: 96 h Daphnia magna mg/L EC50 0.033 - 0.044:48 h Daphnia magna mg/L EC50 Static
Sodium chloride		5560 - 6080: 96 h Lepomis macrochirus mg/L LC50 flow-through 6020 - 7070:96 h Pimephales promelas mg/L LC50 static 12946:96 h Lepomis macrochirus mg/L LC50 static 7050: 96 h Pimephales promelas mg/L LC50 semi-static 6420 - 6700: 96 h Pimephales promelas mg/L LC50 static 4747 -7824: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	

Sodium
Hydroxide45.4: 96 h Oncorhynchus mykiss mg/L LC50
static**CHEMICAL FATE INFORMATION:** No information Available**13. DISPOSAL CONSIDERATIONS****PRODUCT DISPOSAL:** Disposal should be in accordance with applicable regional, national and local laws and regulations**EMPTY CONTAINER:** Do not reuse container.**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** Hypochlorite Solution, 8, Corrosive Material**PRIMARY HAZARD CLASS/DIVISION:** 8**UN/NA NUMBER:** 1791**PACKING GROUP:** III**NAERG:** 154**BULK FREIGHT CLASS:** 70**15. REGULATORY INFORMATION****UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Corrosive

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes**313 REPORTABLE INGREDIENTS:** Section 313 of Title III of the Superfund Amendments and Reauthorization of Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

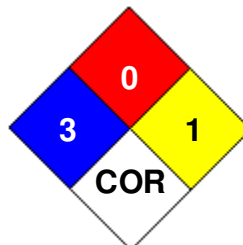
Chemical Name	Wt.%	CAS
Hypochlorous Acid, Sodium Salt	12	7681-52-9
Sodium Chloride	7	7647-14-5

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**CERCLA REGULATORY:** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Wt.%	CERCLA RQ
Hypochlorous Acid, Sodium Salt	12	100
Sodium Chloride	7	
Sodium Hydroxide	1	1,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Hypochlorous Acid, Sodium Salt	7681-52-9
Sodium Chloride	7647-14-5
Sodium Hydroxide	1310-73-2

16. OTHER INFORMATION**NFPA CODES**

MANUFACTURER DISCLAIMER: The information presented herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance that the information is current, applicable and suitable to their circumstances.