

S A F E T Y D A T A S H E E T



Madison Chemical Co., Inc.

3141 Clifty Drive • Madison, IN 47250

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

NAME:

CHLOR-CLEAN 12.5

TYPE:
PRODUCT #

Chlorine Sanitizer E.P.A. Reg. No. 72315-6-110
231001

FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN

EMERGENCY RESPONSE INFORMATION:

CHEMTREC 800-424-9300
Company Offices: 812-273-6000

24-Hour Service
Weekdays

PREPARED DATE:

11-29-18

PREPARED BY:

Natalie Green

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Corrosive to Metals	Category 1	H290
Acute Toxicity, Oral	Category 4	H302
Skin Corrosion/Irritation	Category 1A	H314
Serious Eye Damage/Eye Irritation	Category 1	H318
Aquatic Toxicity (Acute)	Category 1	H400

Signal Word

DANGER

Symbol



Hazard Statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H333 May be harmful if inhaled.
H400 Very toxic to aquatic life.

Precautionary Statements

P234 Keep only in original container.
P260 Do not breathe mist, spray, vapors.
P264 Wash hands, forearms, and exposed areas thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection, face protection, protective clothing, protective gloves.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower
P304 + P340 IF INHALED: Remove person 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.
P321 Specific treatment (see Section 4).
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents / container according to local, regional, national and international regulations.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>SYNONYM</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
Sodium hypochlorite	None	7681-52-9	12 - 15

If Chemical Name/CAS No is "proprietary" and/or % By Weight is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice..

SKIN: Remove contaminated clothing and shoes. Immediately flush with large quantities of cool water continuously for at least 15-20 minutes. Call poison control center or doctor for further treatment advice. Do not put contaminated clothing and shoes back on. Wash clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or a doctor. Do not give anything by mouth to an unconscious person.

INHALATION: NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Move person to fresh air. If person is not breathing, call 911 or an ambulance. Call a poison control center or doctor for further treatment advice.

SIGNS AND SYMPTOMS OF EXPOSURE: Contacted areas will exhibit severe irritation or burns. Burns may not be immediately apparent. Eye contact may cause permanent injury including blindness. If ingested, may cause nausea, vomiting and death. Effects may include circulatory collapse, delirium, coma and possible perforation of esophagus and stomach. May act as a sensitizer.

PRIMARY ROUTE(S) OF ENTRY: Skin, eyes, mucous membranes, ingestion, inhalation

MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED:

EYE CONTACT: Causes severe eye damage

SKIN CONTACT: Causes severe irritation.

INGESTION: Harmful if swallowed.

INHALATION: May cause nasal and respiratory irritation.

CHRONIC SYMPTOMS: None expected under normal conditions of use.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

If you experience any of the symptoms / effects listed above seek medical advice.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Use extinguishing media as appropriate for surrounding fire.

SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Not considered flammable or explosive. Use extinguishing agents suitable for the surrounding fire and not contraindicated for use with sodium hypochlorite. Sodium hypochlorite releases oxygen when heated, which may increase the severity of an existing fire. Use water spray to cool fire exposed surfaces and to protect personnel. Do not use a direct water stream.

ADVICE FOR FIRE FIGHTERS:

Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep containers cool. Avoid inhalation of material or combustion by products. Firefighters should wear full protective clothing and NIOSH approved positive pressure self-contained breathing apparatus.

Hazardous Combustion Products: Chlorine gas.

Chlorine gas is an oxidizer and will support combustion.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Contain liquid spills with sand and absorb on inert material such as Hazorb or clay. Avoid breathing vapors. Ventilate area. Remove sources of ignition and use non-sparking tools.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Dispose with solid wastes. Avoid contact with acids. Do not discharge to sewers or waterways without proper treatment. Contact state and federal environment organizations if RQ is exceeded (See Section 15).

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Wear proper safety equipment when handling this product. Handle in accordance with good industrial hygiene and safety procedures. DO NOT MIX WITH ACIDS! THIS WILL FORM TOXIC CHLORINE GAS!

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:

Store in a cool dry area, away from direct sunlight and heat to avoid deterioration. Keep containers closed when not in use. Vent container frequently and more often in hot weather to relieve pressure. Do not reuse or refill this container. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

CHEMICAL IDENTITY

Sodium hypochlorite

CAS NO.

7681-52-9

OSHA PEL

N.E.*

ACGIH TLV

N.E.*

*Manufacturer recommends a ceiling limit of 0.5 ppm.

ENGINEERING CONTROLS:

Use good ventilation. Local exhaust is recommended if TLVs are exceeded.

INDIVIDUAL PROTECTION MEASURES:

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

RESPIRATORY PROTECTION:

In absence of proper environmental control, use a NIOSH / MSHA approved respirator for mists or where airborne exposure is excessive. If oxygen levels are below 19.5%, are unknown or decomposition products exist, use positive pressure supplied air respiration protection of self-contained breathing apparatus for higher level of protection.

SKIN PROTECTION:

Impermeable type gloves. Rubber apron and rubber boots required. Other equipment as required to avoid contact.

EYE PROTECTION:

Goggles and faceshield necessary.

GENERAL HYGIENE CONSIDERATIONS:

Eyewash facility and emergency shower should be in close proximity. Always wash hands after handling any chemical.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Yellowish green liquid.

ODOR:

Mild chlorine

ODOR THRESHOLD:

0.3 ppm (detection), for Chlorine

pH (100%):

12.0-13.5

MELTING POINT/FREEZING POINT

-17°F (-27°C)

INITIAL BOILING POINT AND BOILING RANGE

284°F (140°C)

FLASH POINT (METHOD USED)

Not available.

EVAPORATION RATE

Not available.

FLAMMABILITY (SOLID, GAS)

Not available.

UPPER/LOWER FLAMMABLE OR EXPLOSIVE LIMIT

Not available.

VAPOR PRESSURE

12 (12.5% solution)

VAPOR DENSITY

0.670

SPECIFIC GRAVITY

1.22

SOLUBILITY IN WATER

Complete.

PARTITION COEFFICIENT: N-OCTANOL/WATER

Not available.

AUTO-IGNITION TEMPERATURE

Not available.

VISCOSITY, DYNAMIC

Not available.

DECOMPOSITION TEMPERATURE

Not available.

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VISCOSITY

Not available.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Will react with acids and ammonia to release toxic chlorine gas.
CHEMICAL STABILITY: Stable under recommended handling and storage conditions (see Section 7).
POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.
CONDITIONS TO AVOID: Direct sunlight and high temperatures
INCOMPATIBLE MATERIALS: Acids, amines, ammonia compounds, oxidizing materials, peroxides, organic materials, reducing agents, cyanides, ethers, hydrocarbons, oxidizable materials and most metals. DO NOT MIX WITH ACIDS! THIS WILL FORM TOXIC CHLORINE GAS!
HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine gas, hypochlorous acid, hydrochloric acid, oxygen, hydrogen chloride gas.

SECTION 11: TOXOLOGICAL INFORMATION

ACUTE TOXICITY: Not classified.
LD50 AND LC50 DATA: LD50 Oral Rat: 8910 mg/kg
LD50 Dermal Rabbit: >10,000 mg/m³
LC50 Inhalation: No data.

ROUTES OF EXPOSURE / SYMPTOMS

EYES: DANGER! Causes severe eye damage.
SKIN: DANGER! Causes severe irritation
INGESTION: WARNING! Harmful if swallowed.
INHALATION: DANGER! Causes burns to alimentary canal and mucous membranes.
GERM CELL MUTAGENICITY: Not classified.
TERATOGENICITY: Not available.
CHRONIC EFFECTS / CARCINOGENICITY: This material contains no ingredient above de minimus concentrations known or suspected to cause cancer.

SPECIFIC TARGET ORGAN TOXICITY (Repeated exposure): Not classified.
REPRODUCTIVE TOXICITY: Not classified.
SPECIFIC TARGET ORGAN TOXICITY (Single exposure): Not classified.
ASPIRATION HAZARD: Not classified.

COMPONENT INFORMATION:

Sodium hypochlorite
LD50 Oral Rat: 8910 mg/kg
LD50 Dermal Rabbit: >10,000 mg/m³
LC50 Inhalation: No data

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY The ecotoxicity of this product is not known

COMPONENT INFORMATION

Sodium hypochlorite

Freshwater Fish Data:

LC50 (*Bluegill sunfish*): 2.90 mg/L/96 hours

LC50 (*Pimephales promelas*): 1.40 mg/L/96 hours

LC50 (*Oncorhynchus mykiss*): 0.90 mg/L/0.5 hours

Invertebrate Toxicity Data:

No data

PERSISTENCE AND DEGRADABILITY: Material is inorganic and not subject to biodegradation.
BIOACCUMULATIVE POTENTIAL: Not available.
MOBILITY IN SOIL: Not available.
OTHER ADVERSE EFFECTS: This material contains no hazardous air pollutants (HAPS).

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Normal for sodium hypochlorite containing wastes. Sodium metabisulfite may be used to neutralize chlorine. May require pH adjustment for neutralization. Dispose in accordance

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with local, state and federal regulations. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

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SECTION 14: TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Hypochlorite solutions, 8, PG III, ERG# 154
HAZARD CLASS: 8
IDENTIFICATION NUMBER: UN1791
PACKING GROUP: III
EMERGENCY RESPONSE GUIDE: ERG #154

SECTION 15: REGULATORY INFORMATION

VOC: 0 pounds per gallon (0 grams per liter).
TSCA STATUS All ingredients are listed on the TSCA inventory.
CERCLA REPORTABLE QUANTITY 100 pounds for sodium hypochlorite (approximately 70 gallons)

SARA 311 / 312 HAZARD CLASSES

<input checked="" type="checkbox"/>	ACUTE HEALTH
<input checked="" type="checkbox"/>	FIRE
<input type="checkbox"/>	SUDDEN RELEASE OF PRESSURE
<input type="checkbox"/>	CHRONIC HEALTH
<input type="checkbox"/>	REACTIVE

SARA 312 INFORMATION

Storage of 10,000 pounds or more may require filing a Tier 2 form. Threshold planning quantity for reporting is 10,000 pounds. This material is not an extremely hazardous substance (EHS).

SARA 313 INFORMATION

This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

CHEMICAL NAME	CATEGORY CODE	CAS NUMBER	% BY WEIGHT
NONE			

STATE REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

California has not identified the ingredients listed in Section 3 as known to cause cancer or reproductive toxicity.

SECTION 16: OTHER INFORMATION

SDS STATUS: Revised Section 1 and 16 on 11-29-18.	HEALTH	3
	FLAMMABILITY	0
	PHYSICAL HAZARD	1

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