

Safety Data Sheet

Chlor-San



Section 1: Identification

GHS product identifier

Product name: Chlor-San

Product Code: N/A

Recommended uses and uses advised against

Recommended use:

Sanitizing solution for commercial dishwashers or as a contact sanitizing solution after dilution.

Uses not recommended:

Do not use in a manner inconsistent with product label.

Supplier details

Cleaner Solutions, LLC
1792 Latham St.
Memphis, TN 38106

Telephone (general)
Website:

(901) 414-2288
CleanerSolutions.net

Emergency telephone number

Infotrac:

(800) 535-5053

Section 2: Hazard identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

Skin Corrosion/Irritation 1

Label Elements

OSHA HCS 2012

Danger



Hazard Statements

H314 Causes severe skin burns and eye damage.

Precautionary Statements

Prevention

P260 Do not breathe dusts or mists.
P264 Wash hands and skin thoroughly after handling.
P280 Wear protective gloves, protective apron, eye protection and face shield where appropriate.

Response

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.
P363 Wash contaminated clothing before reuse.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a poison control center and seek medical attention.
P321 Specific treatment see section 4.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.

Storage/Disposal

P501 Dispose of contents/container per guidelines in section 13.
P405 Store locked up.

Other hazards

OSHA HCS 2012

No data available.

Other information

NFPA



Section 3: Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

Sodium Hypochlorite [Hypochlorous Acid Sodium Salt 1:1] CAS No. 7681-52-9 6% - 21%

See section 11 for toxicological information.

Section 4: First-Aid Measures

Description of first aid measures

Inhalation:

Move to fresh air. Call a physician if symptoms develop or persist.

Skin:

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye:

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call physician or poison control center immediately.

Ingestion:

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms and effects, both acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result.

Indication of any immediate medical attention and special treatment needed:

All treatments should be based on observed signs and symptoms of distress in the patient. Chemical burns: flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

Foam, powder, CO2

Unsuitable extinguishing media:

Do not use water jet as extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Unusual fire and explosion hazards:

During fire, gases hazardous to health may be formed.

Hazardous combustion products:

Not applicable

Advice for firefighters

Use water spray to cool containers exposed to fire. Move containers from fire if you can do so without risk.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions:

Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material.

Emergency procedures:

As an immediate precautionary measure, isolate spill or leak for at least 50 meters.

Environmental precautions

Avoid run off to waterways and sewers.

Methods and material for containment and clean-up

Stop leak if you can do it without risk. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas.

Section 7: Handling and Storage

Precautions for safe handling

Handling:

Follow general workplace safety guidelines.

Conditions for safe storage, including any incompatibilities

Storage:

Store at or near room temperature. Keep container closed when not in use.

Incompatible materials or ignition sources:

Acids, oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Control parameters

Component	Result	Exposure Limits/Guidelines		
		NIOSH	ACGIH	Canada Ontario
Sodium Hypochlorite CAS No. 7681-52-9	STELs	Data lacking	2 mg/m ³	Data lacking
	TWAs	Data lacking	Data lacking	Data lacking
	STELs			
	TWAs			

Exposure controls

Engineering measures and controls:

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

Incompatible materials or ignition sources:

Pictograms:



Respiratory:

Not required.

Eye and face:

Must wear goggles when using this product.

Hands:

Must wear chemical protective gloves when using this product.

Skin and body:

Must wear chemical protective clothing when using this product.

General industrial hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling.

Environmental exposure controls:

Follow best practice for site management and disposal of waste. Avoid release to the environment.

Key to Abbreviations

ACGIH= American Conference of Governmental Industrial Hygiene TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures NIOSH= National Institute of Occupational Safety and Health STEL = Short Term Exposure Limits are based on 15-minute exposures OSHA =Occupational Safety and Health Administration STEV = Short Term Exposure Value

MSHA = Mine Safety and Health Administration

Section 9: Physical and Chemical Properties

Information on physical and chemical properties

Material Description				
Physical Form	Liquid		Appearance/Description	Clear liquid.
Color	Clear to pale yellow.		Odor	Chlorine Odor
Taste	Data lacking		Particulate Type	Not relevant
Particulate Size	Not relevant		Aerosol Type	Not relevant
Odor Threshold	Data lacking		Physical and Chemical Properties	Data lacking
General Properties				
Boiling Point	212F		Melting Point	-3F
Decomposition Temperature	Data lacking		Heat of Decomposition	Data lacking
pH	11.5 - 13.5		Specific Gravity/Relative Density	1.2
Density	10 lbs/gal		Bulk Density	Data lacking
Water Solubility	Data lacking		Solvent Solubility	Data lacking
Viscosity	Data lacking		Explosive Properties	Classification criteria not met
Oxidizing Properties:	Data lacking			
Volatility				
Vapor Pressure	Data lacking		Vapor Density	Data lacking
Evaporation Rate			VOC (Wt.)	Data lacking
VOC (Vol.)	Data lacking		Volatiles (Wt.)	Data lacking
Volatiles (Vol.)	87.5%			
Flammability				
Flash Point	Data lacking		UEL	Data lacking
LEL	Data lacking		Autoignition	Data lacking
Self-Accelerating Decomposition Temperature (SADT)	Data lacking		Heat of Combustion (ΔHc)	Data lacking
Burning Time	Not applicable		Flame Duration	Not applicable
Flame Height	Not applicable		Flame Extension	Not applicable
Ignition Distance	Not applicable		Flammability (solid, gas)	Data lacking
Environmental				
Half-Life	Data lacking		Octanol/Water Partition coefficient	Data lacking
Coefficient of water/oil distribution	Data lacking		Bioaccumulation Factor	Data lacking
Bioconcentration Factor	Data lacking		Biochemical Oxygen Demand BOD/BOD5	Data lacking
Chemical Oxygen Demand	Data lacking		Persistence	Data lacking
Degradation	Data lacking			

Section 10: Stability and Reactivity

Reactivity

Chemical stability

Possible hazardous reactions

Conditions to avoid

Reacts violently with strong acids. This product may react with oxidizing agents.

Material is stable under normal conditions.

Hazardous polymerization does not occur.

Incompatible materials

Contact with incompatible materials. Do not mix with other chemicals.

Hazardous decomposition products

Acids, oxidizing agents.

No hazardous decomposition products are known.

Section 11: Toxicological Information

Information on toxicological effects

Component	CAS No.	Data
Sodium Hypochlorite	7681-52-9	LC50 0.038=0.065 mg/l, 96 hrs (Fish [Chinook Salmon/Oncorhynchus tshawytsca]) Data lacking This product is not expected to cause reproductive or developmental effects.

Target organs

No data available.

Routes of entry and/or exposure

No data available.

Potential health effects

Inhalation

Acute (immediate):

May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Chronic (delayed):

No data available.

Skin

Acute (immediate):

Causes severe skin burns.

Chronic (delayed):

No data available.

Ingestion

Acute (immediate):

No data available.

Chronic (delayed):

Causes digestive tract burns.

Eye

Acute (immediate):

Causes serious eye damage.

Chronic (delayed):

No data available.

Section 12: Ecological Information

Toxicity

Material data lacking.

Persistence and degradability

Material data lacking.

Bioaccumulative potential

Material data lacking.

Mobility in soil

Material data lacking.

Other adverse effects

No studies have been found.

Other information

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Section 13: Disposal Considerations

Waste treatment methods

Product waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

Dispose of packaging in accordance with state, local and federal regulations. Note: packaging and containers may still contain material residue, use caution as appropriate.

Section 14: Transport Information

UN Proper Shipping Name and D.O.T. Information

Transport containers shall be physically secured to the transporting vehicle to prevent accidental loss, tampering, or unauthorized removal.

Section 15: Regulatory Information

Safety, health and environmental regulations specific to substance or mixture

SARA hazard classifications:

Proper shipping name: Sodium Hypochlorite

Section 16: Other Information

Last revision date:

12/15/2015

Preparation date:

7/27/2016

Disclaimer and statement of liability:

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.