

**THATCHER COMPANY MATERIAL SAFETY DATA SHEET****PRODUCT: T-CHLOR****Page 1 of 4**MSDS Date: August 16, 2013
Emergency Contact: 1-800-424-9300**SECTION I****PRODUCT NAME:** T-Chlor
FORMULA: NaOCl
CHEMICAL NAME: Sodium Hypochlorite Solution
CHEMICAL FAMILY: Hypochlorite
MOLECULAR WEIGHT: 74.44**DOT SHIPPING INFORMATION:** Hypochlorite Solution, 8, UN 1791, PG III**SECTION II - HAZARDOUS INGREDIENTS**

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Sodium Hypochlorite	7681-52-9	11 - 15	None Determined

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

SECTION III - HEALTH HAZARD DATA**NFPA HAZARD RATING:**Health = 2
Flammability = 0
Reactivity = 0**FIRE CODE CLASSIFICATIONS:**BOCA National Fire Prevention Code/National Building Code [2009 Edition] Classification: Irritant
Standard Fire Prevention Code/Standard Building Code [2009 Edition] Classification: Irritant
Uniform Fire Code/Uniform Building Code [2009 Edition]: Irritant**CARCINOGENIC LISTING:**NTP: No ingredients listed in this section.
IARC MONOGRAPHS: No ingredients listed in this section.
OSHA 29 CFR 1910: No ingredients listed in this section**ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:****Contact:** Corrosive. May cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage.
Inhalation: Corrosive. Can be irritating to lungs and mucous membranes.
Ingestion: Can cause nausea, irritation and possibly burns to the gastrointestinal tract.**STATEMENT OF PRACTICAL TREATMENT:****Contact:** Flush exposed area thoroughly with water. For eyes, flush with cool water for at least 15 minutes and get prompt medical attention.
Inhalation: Remove person to fresh air.



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Ingestion: If swallowed, drink large quantities of water. **Do not** induce vomiting. **Do not** give vinegar or other acids. Get prompt medical attention. Not to physicians: Do not administer acidic antidotes or sodium bicarbonate following overexposure. 1% sodium thiosulfate or milk of magnesia may be helpful.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT:

Nonflammable

FLAMMABLE LIMITS:

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Use media appropriate for surrounding fire.

SPECIAL FIRE-FIGHTING PROCEDURES:

Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers and disperse vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Under some conditions, T-Chlor could release chlorine gas and/or oxygen. Violent reaction with amines, ammonium carbonate, aziridine, methanol phenylcyanonitrile, ammonium nitrate, ammonium oxalate, ammonium phosphate, cellulose and most organic compounds. Do not mix acids, aqua ammonia or other organic or inorganic chemicals with this product.

SECTION V - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

None normally required.

VENTILATION:

Use adequate ventilation.

EYE PROTECTION:

Safety glasses or chemical goggles.

SKIN PROTECTION:

Wear rubber gloves.

OTHER PROTECTIVE EQUIPMENT:

As needed to avoid contact with skin and eyes.

SECTION VI - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

Store this product in a cool, dry area, away from sunlight and heat to avoid deterioration. Product decomposes more rapidly with increasing temperature. Open containers carefully. Sodium hypochlorite solutions are packaged with vented closures. Do not use containers which are leaking or show evidence of having leaked. Wash thoroughly after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated.



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SECTION VII - PHYSICAL DATA

APPEARANCE AND ODOR: Clear, greenish-yellow liquid with a chlorine odor.

BOILING POINT: 40C (104F) accompanied by decomposition

FREEZING POINT: -29C (-20F)

% VOLATILE, BY VOLUME: 10% at 20 C (70F)

SPECIFIC GRAVITY: 1.2 at 20C (70F)

VAPOR PRESSURE (mm Hg): 12.1 mm Hg (20 C)

VAPOR DENSITY (air = 1): 0.62
(essentially water)

SOLUBILITY IN WATER: Complete

pH: >12

SECTION VIII - REACTIVITY DATA

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine, oxygen.

SECTION IX - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:

Ventilate the area. Wear necessary safety equipment. Flush small spills to the sewer with large amounts of water. For large spills, dike the liquid and recover it into drums. Flush the residue to the sewer with water. (Flush residue water to sewer ONLY if permitted by local laws).

WASTE DISPOSAL METHOD:

Waste sodium hypochlorite solution (with a pH > 12.5) is an EPA Hazardous waste (D002) due to corrosivity. Dispose of at an EPA hazardous waste disposal facility. Comply with all local, state and federal regulations.

SECTION X - REGULATORY INFORMATION

CHEMICAL INVENTORY STATUS:

Ingredient	TSCA (US)	EC	Japan	Australia	Korea	Canada		Phil.
						DSL	NDSL	
Sodium Hypochlorite	7681-52-9	Y	Y	Y	Y	Y	N	Y
Water	7732-18-5	Y	Y	Y	Y	Y	N	Y



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ACGIH = American Conference of Governmental Industrial Hygienists

CL = Ceiling Level

IARC = International Agency for Research on Cancer: Monographs

OSHA = Occupational Safety and Health Administration

N/A = Not Applicable

NTP = National Toxicology Program: Annual Report on Carcinogens

PEL = Permissible Exposure Level (OSHA)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average over 8 Hours

STEL = Short Term Exposure Limit (ACGIH)

ND = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.