



THATCHER COMPANY MATERIAL SAFETY DATA SHEET

PRODUCT: T-CHLOR

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MSDS Date: November 5, 1998
 Emergency Contact: 1-800-424-9300

SECTION I

PRODUCT NAME: T-Chlor

CHEMICAL NAME: Sodium Hypochlorite Solution

CHEMICAL FAMILY: Hypochlorite

Formula: NaOCl solution

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 HAZARDOUS RATING: Health = 2 Flammability = 0 Reactivity = 0

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: 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.
 Ingestion: If swallowed, drink large quantities of water. Do not induce vomiting. Do not give vinegar or other acids. Get prompt medical attention.

**THATCHER COMPANY MATERIAL SAFETY DATA SHEET****PRODUCT: T-CHLOR****Page 2 of 3****SECTION IV - FIRE AND EXPLOSION DATA****FLASH POINT:**

Nonflammable

FLAMMABLE LIMITS:

Lel: N/A Uel: N/A

EXTINGUISHING MEDIA:

Use any.

SPECIAL FIRE-FIGHTING PROCEDURES:

Self-contained breathing apparatus should be available.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Under some conditions, T-Chlor could release chlorine gas and/or oxygen.

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:**

Wash thoroughly after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated. Do not take internally. Open drums carefully.

SECTION VII - PHYSICAL DATA**BOILING POINT:** approx. 212**SPECIFIC GRAVITY:** 1.2**VAPOR PRESSURE (mm Hg):** Essentially water**% VOLATILE, BY VOLUME:** Unknown**VAPOR DENSITY (air = 1):** Essentially water**EVAPORATION RATE:** Unknown**SOLUBILITY IN WATER:** Complete**APPEARANCE AND ODOR:** Clear, greenish-yellow liquid with a chlorine odor.

**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.

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.