

Safety Data Sheet

Section 1: Product identification and use

Product Identifier:

Process Identifier:

TCI 600 H.D.
Sodium hypochlorite bleach (12%)

24H EMERGENCY: 613-996-6666

Manufacturer's name and address:

Tetra-Chem Industries Ltd.
271 Ingersoll St. S., Ingersoll ON N5C 3J7 Canada
Phone: 519-485-4370 — Toll free: 888-658-5515

Supplier's name and address:

Tetra-Chem Industries Ltd.
271 Ingersoll St. S., Ingersoll ON N5C 3J7 Canada
Phone: 519-485-4370 — Toll free: 888-658-5515

Section 2: Hazard identification

GHS Classification

Corrosive To Metals: Category 1

Eye Damage/Irritation: Category 1

Skin Corrosion/Irritation: Category 1A

Pictograms



Signal Word

DANGER

Hazard Statements

H290 May be corrosive to metal.

H314 Causes severe skin burns and eye damage.

H318 Causes severe eye damage.

H370 Causes damage to organs (respiratory system).

Precautionary Statements

P234—Keep only in original container.

P260 Do not breathe the mist or spray.

P264 Wash any skin contact thoroughly after handling.

P280 Wear protective gloves, protective clothing and eye protection.

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

P301+P312 IF SWALLOWED: Call hospital emergency department Doctor if you feel unwell.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove or take off all contaminated clothing immediately. Rinse skin with water or shower.

P304+P340—IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310—Immediately call hospital emergency department Doctor

P321—Specific treatment: Use readily available 3% Hydrogen Peroxide to instantly counter the effects of Sodium Hypochlorite solutions..

P363—Wash contaminated clothing before reuse.

P390—Absorb spillage to prevent material damage.

P405—Store locked up.

P406—Store in a corrosion resistant container made with HDPE plastic..

P501—Dispose of contents in accordance with local/regional/national/international regulation (See Section 13)]. Return containers to the supplier.

Section 3: Composition / information on ingredients

Hazardous Ingredients:

CHEMICAL NAME

Sodium Hypochlorite

Sodium Hydroxide

CAS NUMBER

7681-52-9

1310-73-2

CONCENTRATION [%]

7 - 13

0.1 - 1.5

Section 4: First aid measures

Description of First Aid Measures

General: Determine areas of exposure.

Inhalation: Excessive exposure - move the fresh air.

Skin Contact: Wash with cold water.

Eye Contact: Remove contact lenses. Rinse with cold water or saline solution.

Ingestion: Seek immediate medical attention. Do not induce vomiting.

Most Important Symptoms and Effects Both Acute and Delayed

General: Low risk to adverse health effects.

Inhalation: Inhalation may cause coughing, choking, irritation (possibly severe), chemical burns, shortness of breath, and pulmonary edema. Pulmonary edema may develop several hours after a severe acute exposure.

Skin Contact: Skin irritation or burns.

Eye Contact: Eye exposures may cause burns to the eye lids, conjunctivitis, corneal edema, and corneal burns.

Ingestion: Burning sensation. Seek medical attention.

Section 5: Fire-fighting measures

Extinguishing Media

Suitable Extinguishing Media: Evaluate based on surrounding fire.

Unsuitable Extinguishing Media: Evaluate based on surrounding fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Corrosive caustic vapours at high temperatures.

Explosion Hazard: No risk.

Reactivity: No risk.

Advice for Firefighters

Precautionary Measures Fire: Evaluate based on surrounding fire.

Firefighting Instructions: Evaluate based on surrounding fire.

Protection During Firefighting: Evaluate based on surrounding fire.

Hazardous Combustion Products: Hydrogen chloride, Chlorine gas.

Section 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Wear impervious splash protection. Neutralize with copious amounts of water.

For Non-Emergency Personnel

Protective Equipment: Wear impervious splash protection.

Emergency Procedures: Mop up small spills with water and flush to sanitary sewers. Large spills should be contained and reported immediately.

Phone Number of your local authority for Emergency Spill Response:

For Emergency Personnel

Protective Equipment: Wear impervious splash protection.

Emergency Procedures: Neutralize with copious amounts of water.

Environmental Precautions

Methods and Material for Containment and Cleaning Up

For Containment: Plastic.

Methods for Cleaning Up: Mop up small spills and dispose to sanitary sewer.

Section 7: Handling and storage

Precautions for Safe Handling

Additional Hazards When Processed: Use only Manufacturer supplied storage and/or dispensing equipment. See GHS WORKPLACE LABEL in your work area.

Hygiene Measures: Do not eat, drink or smoke while using this product.

Personal Protection Equipment required for cleaning process.

Storage Conditions: Keep only in original containers.

Incompatible Materials: Do not mix with other cleaners.

Special Rules on Packaging: Consult Manufacturer or Supplier.

Specific End Use(s) TCI 600 H.D. Sodium Hypochlorite 12%

Scan Label QR for Product Application Sheet and SDS for safe intended use.

Section 8: Exposure controls / personal protection

Control Parameters

ACGIH TLV: **2 mg/m³ (TWA) 20 ppm (SKIN)**
OSHA PEL: **2 mg/m³ (TWA) 20 ppm (SKIN)**

Exposure Controls

Appropriate Engineering Controls: Adequate ventilation to meet exposure limits by removing the hazard from an inside or outside work environment. The chemical constituents of the cleaning solution does not evaporate.

Personal Protective Equipment:



Other Information: Alkali resistant GLOVES are always required. In confined wash areas with minimal ventilation use NIOSH approved respirators and splash protection for alkaline mist when rinsing parts.

Section 9: Physical and chemical properties

Information on Basic Physical and Chemical Properties

Physical State: **Liquid.**

Appearance: **Colourless to yellow.**

Odour: **Characteristic bleach odour.**

Odour Threshold: **0.3 ppm (0.9 mg/m³).**

pH: **12**

Relative Evaporation Rate (butyl acetate=1): **Not available.**

Melting Point: **Not applicable.**

Freezing Point: **-20°C**

Boiling Point: **110°C.**

Flash Point: **Not applicable.**

Auto-ignition Temperature: **Not applicable.**

Decomposition Temperature: **Not applicable.**

Flammability (solid/gas): **Not applicable.**

Lower Flammable Limit: **Not applicable.**

Upper Flammable Limit: **Not applicable.**

Vapour Pressure: **Not applicable.**

Relative Vapour Density at 20°C: **Not applicable..**

Relative Density (water=1): **1.22**

Solubility in Water: **Complete**

Partition coefficient: n-octanol/water: **Not applicable.**

Viscosity: **20 centipoise @ 20°C.**

Explosion Data - Sensitivity to Mechanical Impact: **Not applicable.**

Explosion Data - Sensitivity to Static Discharge: **Not applicable.**

Section 10: Stability and reactivity

Reactivity: **Reacts violently with strong acids.**

Chemical Stability: **Stable.**

Possibility of Hazardous Reactions: **None when used as directed.**

Conditions to Avoid: **Strong reducing agents.**

Incompatible Materials: **Material is a strong oxidizing agent and should only be**

mixed with water. Mixing this product with chemicals (e.g. ammonia compounds, acids, detergents) or organic matter will release chlorinated compounds, which are irritating to eyes, lungs, and mucous membranes. Other materials to avoid include: most metals, peroxides, reducing agents, oxidizing agents.

Hazardous Decomposition Products: Hydrogen chloride, Chlorine gas.

Section 11: Toxicological information

Information on Toxicological Effects - Product

Acute Toxicity: **Not available.**

LD₅₀ Data (Species-Route): **8910 mg/kg (Rat - oral).**

LC₅₀ Data (Species-Route): **Not available.**

Skin Corrosion/Irritation: **Severe irritant: Human/Rabbit 10,000 mg/kg 24hrs**

Serious Eye Damage/Irritation: **Moderate corneal injury: Rabbit 1 mg/24hrs**

Respiratory or Skin Sensitization: **Not suspected.**

Germ Cell Mutagenicity: **Not suspected.**

Teratogenicity: **Not suspected.**

Carcinogenicity: **Not suspected.**

Specific Target Organ Toxicity (Repeated Exposure): **Not available.**

Reproductive Toxicity: **Not suspected.**

Specific Target Organ Toxicity (Single Exposure): **Not suspected.**

Aspiration Hazard: **Not anticipated.**

Symptoms/Injuries After Inhalation: **Irritation/burning sensation.**

Symptoms/Injuries After Skin Contact: **Slight irritation/redness observation.**

Symptoms/Injuries After Eye Contact: **Stinging/scaly sensation.**

Symptoms/Injuries After Ingestion: **Sore throat/burns.**

Information on Toxicological Effects - Ingredients

Large doses can change the body's pH and electrolyte balance.

Section 12: Ecological information

Toxicity: **Not applicable when used as directed.**

Mobility in Soil: **Neutralizes and turns to salt in soil.**

Other Adverse Effects

Other Information: Toxic to aquatic life. Freshwater Fish, Invertebrate & Algae.

Section 13: Disposal considerations

Waste Disposal Recommendations: **Consult Manufacturer or Supplier.**

Additional Information: The cleaning process may generate a hazardous industrial waste. Comply with Canadian Ministry of Environment and Climate Change: Regulation 347 and local municipal by-laws. Comply with US EPA's federal, state & local

regulations. Tetra-Chem Industries Ltd. is licensed by the Ministry of the Environment and Climate Change for waste management.

Ontario Certificate of Approval # A 800506.

Provincial Waste Class: Waste stream to be determined for treatment method.

Section 14: Transport information

TDGA CANADA - DANGEROUS GOODS: **REGULATED**

49 CFR (USA) DANGEROUS GOODS: **REGULATED**

IMDG (VESSEL) DANGEROUS GOODS: **REGULATED**

IATA (CARGO AIR) DANGEROUS GOODS: **REGULATED**

IMDG (PASSENGER AIR) DANGEROUS GOODS: **REGULATED**

EMERGENCY ASSISTANCE: CANADA Canutec 1-888-CANUTEC (1-888-226-8832)



Proper Shipping Name: HYPOCHLORITE SOLUTION

(sodium hypochlorite)

Hazard Class: 8

Identification Number: UN1791

Packing Group: III

Label /Placard Codes: 8

Section 15: Regulatory information

CANADA: All ingredients are listed on the DSL Domestic Substance List.

USA: All ingredients are listed on the TSCA Toxic Substances Control Act.

Section 16: Other information

Prepared by: **Health and Safety committee**

Contact: **A. Struthmann (Hon. BSc.)**

Telephone: **1-519-536-1617**

Date prepared: **2023-03-02**

Additional information:

The information in this SDS has been obtained from sources believed to be reliable. The manufacturer and supplier provides no warranties express or implied and assumes no responsibility for the accuracy or the completeness of the data contained herein.