

Safety Data Sheet

Section 1: Product identification and use

Product Identifier:

TCI 607 H.D.

Process Identifier:

Alkali/chlorine spray/foaming pre-soak cleaner/sanitizer for deadstock waste deposits on handling equipment

24 H 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
Skin Corrosion/Irritation: Category 1A
Eye Damage/Irritation: Category 1
Acute Toxicity (Oral): Category 4

Pictograms



Signal Word

Danger

Hazard Statements

H290—May be corrosive to metal.
H302—Harmful if swallowed.
H314—Causes severe skin burns and eye damage.
H318—Causes serious eye damage.

Precautionary Statements

P234—Keep only in original container.
P260—Do not breathe mist, vapours, or spray.
P264—Wash skin thoroughly after handling.
P270—Do not eat, drink or smoke when using this product.
P280—Wear protective gloves and eye protection.
P301+P312—IF SWALLOWED: Call a POISON CENTER if you feel unwell.
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.
P304+P340—IF INHALED: Remove person to fresh air and keep 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
P321—Specific treatment (see Section 4 First Aid on this SDS).
P330—Rinse mouth.
P363—Wash contaminated clothing before reuse.
P390—Absorb spillage to prevent material damage.
P405—Store locked up.
P406—Store in a corrosive resistant container with a resistant inner liner.
P501—Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition / information on ingredients

Hazardous Ingredients:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION [%]
Potassium Hydroxide	1310-58-3	1 - 5
Sodium metasilicate	6834-92-0	7 - 15
Sodium Hypochlorite	7681-52-9	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 or neutralize with 5% vinegar solution.

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

Chlorine is extremely harmful to the eye. Could cause Blindness.

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: Respiratory irritation or sore throat.

Skin Contact: Severe skin burns.

Eye Contact: The chlorinated alkali solution can travel to the back of the eye ball and corrode the optic nerve if sprayed directly into the eyes. The delayed effect symptoms are a scaly rash for 3-4 days when blinking. Seek immediate medical attention.

Ingestion: Burning sensation with peeling skin. 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: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Protection During Firefighting: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Hazardous Combustion Products: Caustic and Chlorine vapours.

Section 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Wear impervious splash protection. Neutralize with copious amounts of water and flush to sanitary sewers if at pH 8.5.

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 with sand dikes 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 small spills with copious amounts of water and flush to sanitary sewers if the pH is at 8.5.

Environmental Precautions

Methods and Material for Containment and Cleaning Up

For Containment: As a precaution use secondary containment as accidental leaks could happen on Industrial Bulk Containers or dispensing equipment.

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, packaging and 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 is required at all times 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 607 H.D. is a Liquid FG Alkali/Chlorine Cleaner/Sanitizer Concentrate and is intended to dissolve and remove all remaining dead stock deposits from transportation or processing equipment contact surfaces.

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

Section 8: Exposure controls / personal protection

Control Parameters

ACGIH TLV: **15 mg/m³ (TWA) 5 mg/m³ (INHALATION)**

OSHA PEL: **15 mg/m³ (TWA) 5 mg/m³ (INHALATION)**

Exposure Controls

Appropriate Engineering Controls: Provide adequate ventilation to meet exposure limits by removing the hazard from an inside or outside work environment.

Personal Protective Equipment:



Other Information: Safety Glasses are always required while handling and installing the new reservoir bottle. Alkali resistant GLOVES are always required.

Section 9: Physical and chemical properties

Information on Basic Physical and Chemical Properties

Physical State: Liquid.

Appearance: Water clear with slight tint of green.

Odour: Chlorine.

Odour Threshold: Not available.

pH: 13

Relative Evaporation Rate (butyl acetate=1): 0.3

Melting Point: Not applicable.

Freezing Point: 0°C

Boiling Point: 100°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): 1.03

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 oxidizers.

Incompatible Materials: White metals or their alloys: aluminum, magnesium, lead, tin, zinc, brass and babbitt.

Hazardous Decomposition Products: Not suspected.

Section 11: Toxicological information

Information on Toxicological Effects - Product

Acute Toxicity: 1,516 mg/kg.

LD₅₀ Data (Species-Route): 273 mg/kg(Rat - oral).

LC₅₀ Data (Species-Route): Not available.

Skin Corrosion/Irritation: Severe irritant: Human/Rabbit 50 mg/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. Tearing/Redness. **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. Detergents are biodegradable.

Other Adverse Effects

Other Information: No unusual adverse effects encountered.

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: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (Potassium Hydroxide),

Hazard Class: 8

Identification Number: UN3266

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.