

# Safety Data Sheet

## Section 1: Product identification and use

**Product Identifier:**

# TCI 703 H.D.

**Process Identifier:**

## Multi-purpose aqueous heavy duty cleaner/degreaser liquid concentrate

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

Acute Toxicity (Dermal)—Category 4  
Acute Toxicity (Inhalation)—Category 4  
Acute Toxicity (Oral)—Category 4  
Corrosive to Metals—Category 1  
Serious Eye Damage—Category 1  
Skin Corrosion—Category 1

### Pictograms



### Signal Word

Danger

### Hazard Statements

H290—May be corrosive to metals.  
H302—Harmful if swallowed.  
H312—Harmful in contact with skin.  
H314—Causes severe skin burns and eye damage.  
H318—Causes serious eye damage.  
H332—Harmful if inhaled.

### Precautionary Statements

P234—Keep only in original container.

P260—Do not breathe the mist or spray.

P261—Avoid breathing mist or spray.

P264—Wash exposed skin thoroughly after handling.

P270—Do not eat, drink or smoke when using this product.

P271—Use only outdoors or in a well-ventilated area.

P280—Wear protective gloves and eye protection.

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

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

P302+P352—IF ON SKIN: Wash with mild acidic solution then use plenty of water.

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

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

P305+P351+P338—IF IN EYES: Remove contact lenses if present and easy to do. Cautiously apply a mild acidic water solution then rinse with water/saline solution for several minutes.

P310—Immediately call hospital emergency department Doctor.

P312—Call hospital emergency department Doctor if you feel unwell.

P321—Specific treatment (Use mild acidic solution to bring pH to 7 and use moisturizing eye drops for several days until eye ball feels perfectly normal again).

P330—Rinse mouth.

P361+P364—Take off immediately all contaminated clothing and wash it before reuse.

P362+P364—Take off contaminated clothing and wash it before reuse.

P363—Wash contaminated clothing before reuse.

P390—Absorb spillage to prevent material damage.

P405—Store locked up.

P406—Store in a corrosion resistant container of HDPE plastic.

P501—Dispose of contents in accordance with local, regional, national and international government regulations. Return container to supplier for recycling.

## Section 3: Composition / information on ingredients

### Hazardous Ingredients:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION [%]
Potassium Hydroxide	1310-58-3	1 - 5
2-Butoxy Ethanol	111-76-2	10 - 30
Alcohols, C9-11, ethoxylated	68439-46-3	10 - 30

## 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.

**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 when inhaling mist of concentrate.

**Skin Contact:** Mild skin irritation when handling concentrate. None when used at recommended dilution: 10-100:1.

**Eye Contact:** The 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 medical attention.

**Ingestion:** Burning sensation just like acid reflux. Seek medical attention.

## Section 5: Fire-fighting measures

### Extinguishing Media

**Suitable Extinguishing Media:** Water spray or Dry chemical for surrounding fire.

**Unsuitable Extinguishing Media:** Not available.

**Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** None under normal conditions. Know the Fire Extinguisher location at your workstation.

**Explosion Hazard:** None under normal conditions. Volatile when heated.

**Reactivity:** Stable under normal conditions.

**Advice for Firefighters**

**Precautionary Measures Fire:** Soluble in water. Water reduces the spread of fire.

**Firefighting Instructions:** Keep the container cool.

**Protection During Firefighting:** Wear self-contained breathing apparatus for fire fighting if necessary.

**Hazardous Combustion Products:** Once water has evaporated: Oxides of Carbon and particulate matter in smoke

## Section 6: Accidental release measures

### Personal Precautions, Protective Equipment and Emergency Procedures

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

If contaminated, contain the spill and collect in plastic containers.

**For Non-Emergency Personnel**

**Protective Equipment:** Wear impervious splash protection.

**Emergency Procedures:** Neutralize with copious amounts of water or safe acid solutions and flush to sanitary sewers if the pH is below 8.5 and above 5.5.

**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 or safe acid solutions and flush to sanitary sewers if the pH is below 8.5 and above 5.5.

**Environmental Precautions**

**Methods and Material for Containment and Cleaning Up**

**For Containment:** Water/oil absorbant pads.

**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 recommended 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.

**Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Provide normal air exchange in application work areas.

**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 703 H.D. Multi-Purpose Aqueous Heavy Duty Cleaner/Degreaser liquid concentrate is designed to be

diluted with water then pre-sprayed or mopped to clean the entire soil spectrum encountered in the industrial environment.

Convenient "Hands-Free" proportioners and dispensers available.

See Product Application Sheet or label QR for safe intended use.

## Section 8: Exposure controls / personal protection

### Control Parameters

ACGIH TLV: **15 mg/m<sup>3</sup> (TWA) 175 ppm (SKIN) 500 mg/m<sup>3</sup> (INHALATION)**

OSHA PEL: **15 mg/m<sup>3</sup> (TWA) 175 ppm (SKIN) 500 mg/m<sup>3</sup> (INHALATION)**

### 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 do not evaporate but can be atomized by spraying or misting.

### Personal Protective Equipment:



**Other Information:** Alkali resistant GLOVES are a recommended requirement. In confined wash areas with minimal ventilation use NIOSH approved alkali spray mist and splash protection when washing.

## Section 9: Physical and chemical properties

### Information on Basic Physical and Chemical Properties

Physical State: **Liquid.**

Appearance: **Clear with green color.**

Odour: **Butyl detergent.**

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 determined.**

Auto-ignition Temperature: **230°C.**

Decomposition Temperature: **Not determined.**

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

Lower Flammable Limit: **Not applicable.**

Upper Flammable Limit: **Not applicable.**

Vapour Pressure: **0.39 mmHg @ 20°C**

Relative Vapour Density at 20°C: **> 5.6 @ 758 mmHg**

Relative Density (water = 1): **1.03**

Solubility in Water: **Complete.**

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

Viscosity: **1.27 centipoise**

Explosion Data - Sensitivity to Mechanical Impact: **No**

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

## Section 10: Stability and reactivity

Reactivity: **Stable.**

Chemical Stability: **Stable.**

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

Conditions to Avoid: **Strong oxidizers.**

Incompatible Materials: **None when used as directed.**

Hazardous Decomposition Products: **None when used as directed.**

## Section 11: Toxicological information

### Information on Toxicological Effects - Product

Acute Toxicity: **Not available.**

LD<sub>50</sub> Data (Species-Route): **16,000 mg/kg(Rat - oral).**

LC<sub>50</sub> Data (Species-Route): **Not available.**

Skin Corrosion/Irritation: **Skin irritation. Heals without scarring.**

Serious Eye Damage/Irritation: **Major 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/tingling sensation.**

Symptoms/Injuries After Skin Contact: **Dryness/scaly sensation.**

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

Symptoms/Injuries After Ingestion: **Mouth/throat/skin burns.**

Information on Toxicological Effects - Ingredients

**Concentration of 2-butoxyethanol is fixed at Category 4.**

## Section 12: Ecological information

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

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

Detergents and solvent 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.)**

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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.