

# Safety Data Sheet

## Section 1: Product identification and use

**Product Identifier:**

# TCI 714 H.D.

**Process Identifier:**

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

24 HOUR EMERGENCY ASSISTANCE: 519-485-4370

**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 — Fax: 855-762-4446

**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 — Fax: 855-762-4446

## Section 2: Hazard identification

**GHS Classification**

Corrosive To Metals: Category 1

Skin Corrosion/Irritation: Category 1A

Eye Damage/Irritation: Category 2/2A

**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 severe eye damage.

**Precautionary Statements**

P260 Do not breathe (dust/fume/gas/mist/vapours/spray).

P264 Wash...thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P301+P312 IF SWALLOWED: Call a poison center or Doctor/Physician if you feel unwell.

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

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

## Section 3: Composition / information on ingredients

**Hazardous Ingredients:**

**CHEMICAL NAME**

Sodium metasilicate

**CAS NUMBER**

6834-92-0

**CONCENTRATION [%]**

7-13

## 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:** If victim is conscious administer 5% vinegar solution.

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 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:** 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 vapors 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:** Oxides of Carbon, Caustic vapors.

## 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.

**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 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 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 714 H.D. Multi-Purpose heavy duty aqueous cleaner/degreaser concentrate is primarily used to remove grime, oil, grease, paint, rust and corrosion from any surface especially mud flaps other than polished aluminum.

See Product Application Sheet 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 does not evaporate. **Some Potassium Hydroxide may carry out in steam or vapor if solution is boiling vigorously.**

### 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:** Water clear with slight tint of amber.

**Odour:** Detergent.

**Odour Threshold:** Not available.

**pH:** 13

**Relative Evaporation Rate (butylacetate=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:** Hydrogen release from above metals.

## Section 11: Toxicological information

### Information on Toxicological Effects - Product

**Acute Toxicity:** Not available.

**LD<sub>50</sub> Data (Species-Route):** 273 mg/kg(Rat - oral).

**LC<sub>50</sub> 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.

**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:** 2018-03-21

**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.