

# Safety Data Sheet

## Section 1: Product identification and use

**Product Identifier:**

# TCI 1234 H.D.

**Process Identifier:**

Hot aqueous ultrasonic cleaner for removing carbon & varnish deposits from multi-metals

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**

Skin Corrosion/Irritation: Category 3

Eye Damage/Irritation: Category 2A

**Pictograms**



**Signal Word**

WARNING

**Hazard Statements**

H316—Causes mild skin irritation.

H319—Causes serious eye irritation.

**Precautionary Statements**

P264—Wash hands or contact materials thoroughly after handling.

P280—Wear protective gloves and eye protection.

P305+P351+P338—IF IN EYES: Rinse cautiously with water/saline solution for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P332+P313—If skin irritation occurs: Get medical advice or attention.

P337+P313—If eye irritation persists get medical advice or attention.

## Section 3: Composition / information on ingredients

**Hazardous Ingredients:**

**CHEMICAL NAME**

Sodium Metasilicate

Diethylene Glycol monobutyl ether

**CAS NUMBER**

6834-92-0

112-34-5

**CONCENTRATION [%]**

1 - 5

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.

**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 or sore throat.

**Skin Contact:** Mild skin irritation.

**Eye Contact:** The delayed effect symptoms are a scaly rash for 3-4 days when blinking. Seek medical attention.

**Ingestion:** Mild irritation 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:** No risk.

**Explosion Hazard:** 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.

## 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 when the pH is between 8.5 and 5.5.

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 when the pH is between 8.5 and 5.5.

**Environmental Precautions**

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

**For Containment:** Water/oil absorbent 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.

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

**Technical Measures:** Provide sufficient 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 1234 H.D. HOT AQUEOUS ULTRASONIC CLEANER for REMOVING CARBON & VARNISH DEPOSITS from MULTI-METALS.

This cleaner is designed to be diluted at 3:1 with 80 C hot water for immersion cleaning of multi-metals in the faster time possible.

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

**Section 8: Exposure controls / personal protection**

**Control Parameters**

ACGIH TLV: **Not Established**

OSHA PEL: **Not Established**



**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.

**Other Information:** Alkali resistant GLOVES are NOT always required. Even in confined wash areas with minimal ventilation the use of NIOSH approved respirators and splash protection for alkaline mist when rinsing parts are NOT required.

**Personal Protective Equipment:**

**Section 9: Physical and chemical properties**

**Information on Basic Physical and Chemical Properties**

**Physical State:** Liquid.

**Appearance:** Clear with amber color.

**Odour:** Detergent.

**Odour Threshold:** Not available.

**pH:** 12.5

**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:** 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):** Not available.

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

**Skin Corrosion/Irritation:** Mild irritant

**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/tingling sensation.

**Symptoms/Injuries After Skin Contact:** Slight irritation/dryness.

**Symptoms/Injuries After Eye Contact:** Itching/Tearing Redness irritation.

**Symptoms/Injuries After Ingestion:** Sore throat/severe irritation.

**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:** NOT-REGULATED

**49 CFR (USA) DANGEROUS GOODS:** NOT-REGULATED

**IMDG (VESSEL) DANGEROUS GOODS:** NOT-REGULATED

**IATA (CARGO AIR) DANGEROUS GOODS:** NOT-REGULATED

**IMDG (PASSENGER AIR) DANGEROUS GOODS:** NOT-REGULATED

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

**Proper Shipping Name:**

**Hazard Class:**

**Identification Number:**

**Packing Group:**

**Label /Placard Codes:**

**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:** 2023-02-28

warranties express or implied and assumes no responsibility for the accuracy or the completeness of the data contained herein.

**Additional information:** The information in this SDS has been obtained from sources believed to be reliable. The manufacturer and supplier provides no