

# Safety Data Sheet

## Section 1: Product identification and use

**Product Identifier:**

# TCI 312 H.D.

**Process Identifier:** Brushless non-etching welding soot cleaner from polished aluminum truck bodies & hoppers (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 (Oral)—Category 4  
Skin Corrosion—Category 1B  
Serious Eye Damage—Category 1

**Pictograms**



**Signal Word**

**DANGER**

**Hazard Statements**

H302—Harmful if swallowed.  
H314—Causes severe skin burns and eye damage.  
H318—Causes serious eye damage.

**Precautionary Statements**

P260—Do not breathe mist or spray.  
P264—Wash hands thoroughly after handling.  
P270—Do not eat, drink or smoke when using this product.  
P280—Wear protective gloves, protective clothing, eye protection and face protection.  
P301+P312—IF SWALLOWED: Call hospital emergency doctor 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/shower.  
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 hospital emergency department doctor.  
P321—Specific treatment (treat as acid skin burn).  
P330—Rinse mouth.  
P363—Wash contaminated clothing before reuse.  
P405—Store locked up.  
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
Methyl Sulphonic Acid
Sulphuric acid
Urea, Monohydrochloride

**CAS NUMBER**

75-75-2
7664-93-9
506-89-8

**CONCENTRATION [%]**

1 - 3
3 - 7
15 - 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 baking soda solution.

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

**Ingestion:** If victim is conscious administer antacid in liquid or tablet form. 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 irritation.

**Eye Contact:** The acid 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 acid 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, Acid 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 alkaline solutions and flush to ground or sanitary sewers.

**For Non-Emergency Personnel**

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

**Emergency Procedures:** Neutralize with copious amounts of water or alkaline solutions and flush to sanitary sewers. For large spills use containment and dike.

**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 alkaline solutions and flush to ground or sanitary sewers.

**Environmental Precautions**

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

**For Containment:** Water 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 Protective Equipment required when pre spraying equipment.

**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 312 H.D. Brushless non-etching welding soot cleaner from new polished aluminum trailers & hoppers (concentrate) and intended to be diluted with water 10:1 with our automatic proportioner and sprayed or foamed onto the entire aluminum surfaces especially focusing on the weld seams to dissolve the black soot from the pores.

**Consult Product Application Sheet or label QR for safe intended use.**

## Section 8: Exposure controls / personal protection

### Control Parameters

ACGIH TLV: **25 mg/m<sup>3</sup> (TWA) 75 mg/m<sup>3</sup> (STEL)**

OSHA PEL: **25 mg/m<sup>3</sup> (TWA)**

### Exposure Controls

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

### Personal Protective Equipment:



**Other Information:** Acid resistant GLOVES are not always required to prevent unsuspected and prolonged acid solution pooling.

## Section 9: Physical and chemical properties

### Information on Basic Physical and Chemical Properties

**Physical State:** Liquid.

**Appearance:** Clear straw color.

**Odour:** Detergent smell.

**Odour Threshold:** Not available.

**pH:** 0.75 - 0.85

**Relative Evaporation Rate (butyl acetate=1):** 0.3

**Melting Point:** Not applicable.

**Freezing Point:** -5°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:** 100 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:** None when used as directed.

**Chemical Stability:** Stable.

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

**Conditions to Avoid:** Chlorine or bleach.

**Incompatible Materials:** Chlorine bleach and strong alkali.

**Hazardous Decomposition Products:** Chlorine gas.

## Section 11: Toxicological information

### Information on Toxicological Effects - Product

**Acute Toxicity:** Not available.

**LD<sub>50</sub> Data (Species-Route):** 1950 mg/kg(Rat - oral) 1920 mg/kg(Guinea pig).

**LC<sub>50</sub> Data (Species-Route):** VAPOR: 7.1 ug/m3 (Rat) (4 hour(s)).

**Skin Corrosion/Irritation:** Mild irritant (Acute exposure).

**Serious Eye Damage/Irritation:** Stinging, Corneal injury (Acute exposure).

**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 binds to 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, ACIDIC, INORGANIC, N.O.S., (Sulphuric Acid)

**Hazard Class:** 8

**Identification Number:** UN3264

**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:** 2023-03-01

**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.