

Safety Data Sheet

Section 1: Product identification and use

Product Identifier:

TCI 1211 H.D.

Process Identifier: Hot aqueous multi-metal immersion tank degreaser, oxidation stripper and corrosion inhibitor (powder)

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

Skin Corrosion/Irritation: Category 4
Eye Damage/Irritation: Category 2/2A

Pictograms



Signal Word

WARNING

Hazard Statements

H313 May be harmful in contact with skin.
H316 Causes mild skin irritation.
H320 Causes eye irritation.

Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Remove contact lenses. Rinse cautiously with water for several minutes.

Section 3: Composition / information on ingredients

Hazardous Ingredients:	CHEMICAL NAME	CAS NUMBER	CONCENTRATION [%]
	Sodium Metasilicate	6834-92-0	10 - 15
	Sodium Carbonate	497-19-8	7 - 12

Section 4: First aid measures

Description of First Aid Measures

General: Determine areas of exposure.
Inhalation: Minimal risk of exposure.
Skin Contact: Wash with cold water or neutralize with 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 or sore throat.
Skin Contact: Mild irritation.
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: None.
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.

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.
For Non-Emergency Personnel
Protective Equipment: Wear impervious splash protection.
Emergency Procedures: Neutralize with copious amounts of water and flush to sanitary sewers. For large spills shovel back into similar shipping container.
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 and flush to 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 Protection Equipment required when removing cleaned parts from the hot aqueous solution.
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 1211 H.D. Hot Aqueous Multi-Metal Immersion Cleaning Tank Compound is primarily used at 3oz/gal or 25g/L to remove carbonaceous soils from white and ferrous metal articles on transportation motive equipment.

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

Section 8: Exposure controls / personal protection

Control Parameters

ACGIH TLV: 30 mg/m³ (TWA) 30 mg/m³ (STEL)

OSHA PEL: 30 mg/m³ (TWA)

Exposure Controls

Appropriate Engineering Controls: This powder blend is non-dusting.

Adequate ventilation to meet exposure limits by removing the hazard from an inside or outside work environment.

Personal Protective Equipment:



Other Information: Parts coming out of the cabinet washer are hot at 80°C. Protect yourself from heat burns and scalding water.

Section 9: Physical and chemical properties

Information on Basic Physical and Chemical Properties

Physical State: Powder (Non-Dusting).

Appearance: White granular.

Odour: Detergent smell.

Odour Threshold: Not available.

pH: 1% solution in water: 11

Relative Evaporation Rate (butyl acetate=1): Not applicable.

Melting Point: Not applicable.

Freezing Point: Not applicable.

Boiling Point: Not applicable.

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): Not applicable.

Solubility in Water: Complete

Partition coefficient: n-octanol/water: Not applicable.

Viscosity: Not applicable.

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 forming steam under water.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: None when used as directed.

Conditions to Avoid: None when used as directed.

Incompatible Materials: Strong acids, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals.

Hazardous Decomposition Products: Hydrogen release from metals.

Section 11: Toxicological information

Information on Toxicological Effects - Product

Acute Toxicity: Not available.

LD₅₀ Data (Species-Route): 12.8 g/kg(Rat - oral) 24 g/kg(Mouse - oral).

LC₅₀ Data (Species-Route): Not available.

Skin Corrosion/Irritation: Mild irritant.

Serious Eye Damage/Irritation: Stinging, Corneal injury.

Respiratory or Skin Sensitization: Not suspected.

Germ Cell Mutagenicity: Not suspected.

Teratogenicity: Not suspected.

Carcinogenicity: Not suspected.

Specific Target Organ Toxicity (Repeated Exposure): Not anticipated.

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/no injury.

Symptoms/Injuries After Eye Contact: Tearing, Stinging/dry scaly sensation.

Symptoms/Injuries After Ingestion: Sore throat/dryness.

Information on Toxicological Effects - Ingredients

Powder reacts with the moisture on skin that could defat and dry out skin.

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: 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: Not applicable

Proper Shipping Name: Not applicable

Hazard Class: Not applicable

Identification Number: Not applicable

Packing Group: Not applicable

Label /Placard Codes: Not applicable

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

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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.