# Safety Data Sheet

### Section 1: Product identification and use

### Product Identifier:

# TCI 525 H.D.

Process Identifier: Stainless steel cleaner and passifier/aluminum brightener concentrate for truck wash facilities and mobile

### 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

#### Section 2: Hazard identification

### **GHS Classification**

Corrosive To Metals: Category 1 Acute Toxicity (Oral): Category 1 Acute Toxicity (Dermal): Category 1 Acute Toxicity (Inhalation): Category 1 Skin Corrosion/Irritation: Category 1A Eye Damage/Irritation: Category 1 **Pictograms** 



Signal Word Danger

### Hazard Statements

H290-May be corrosive to metal. H300-Fatal if swallowed. H310-Fatal in contact with skin. H330-Fatal if inhaled. H314-Causes severe skin burns and eye damage. H318-Causes serious eye damage. Precautionary Statements P234-Keep only in original container. P260-Do not breathe mist or spray. P262-Do not get in eyes, on skin, or on clothing.

#### Section 3: Composition / information on ingredients

Hazardous Ingredients:	CHEMICAL NAME Phosphoric acid Hydrofluoric acid	CAS NUMBER 7664-38-2 7664-39-3	CONCENTRATION [%] 10 - 30 3 - 7
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. Apply 2.5% Calcium Glucon- ate Cream and massage deep into the skin. 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: HIGH RISK adverse health effects. Inhalation: Respiratory irritation or sore throat with ulceration possible. Skin Contact: Causes severe skin burns which may not become apparent for several hours. Apply and massage with 2.5% Calcium Gluconate Gel. Seek immediate medical attention. Eye Contact: Causes serious eye damage. 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 fo 3-4 days when blinking. Seek medical attention. Ingestion: Burning sensation and ulceration just like acid reflux. Seek medical attention.	
Section 5: Fire-fighting measure	S		
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: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Protection During Firefighting: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Hazardous Combustion Products: Oxides of Carbon, Acid vapors.	
Section 6: Accidental release mo	easures		
	Equipment and Emergency Procedures us splash protection. Neutralize with copious amounts of water or	For Emergency Personnel	

For Non-Emergency Personnel Protective Equipment: Wear impervious splash protection. Emergency Procedures: Neutralize with copious amounts of water or alkaline solutions for proper waste

processing and disposal. For large spills use containment and dike.

alkaline solutions and flush to ground or sanitary sewers.

Phone Number of your local authority for Emergency Spill Response

### 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

P264—Wash hands thoroughly after handling.
P270–Do not eat, drink or smoke when using this product.
P271–Use only outdoors or in a well-ventilated areas.
P280-Wear protective gloves, protective clothing, eve protection and face protection.
P284—Wear respiratory protection inside a wash bay or other confined space.
P301+P310–IF SWALLOWED: Immediately call a doctor at a hospital emergency department.
P301+P330+P331–IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352—IF ON SKIN: Wash with plenty of water or apply an aqueous 2% baking soda solution.
P303+P361+P353—IF ON SKIN OR HAIR Immediately remove all contaminate dclothing. Rinse skin with
water and/or shower or immediately apply an aqueous 2% baking soda solution.
P304+P340—IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338—IF IN EYES: Remove contact lenses. Rinse cautiously with water for several minutes.
The acid solution can travel to the back of the eye ball and corrode the optic nerve if sprayed directly into
the eyes.
P310—Immediately call a doctor at a hospital emergency department.
P320–Specific treatment is urgent (apply an aqueous 2% baking soda solution immediately).
P321–Specific treatment after prolonged exposure: Causes severe skin burns which may not become ap-
parent for several hours. Apply and massage with 2.5% Calcium Gluconate Gel.
P330–Rinse mouth.
P361+P364—Take off immediately all contaminated clothing and wash it before reuse.
P363–Wash contaminated clothing before reuse.
P390—Absorb spillage to prevent material damage.
P403+P233—Store in a well ventilated place. Keep container tightly closed.
P405—Store locked up.
P406—Store in original corrosive resistant container.

P406—Store in original corrosive resistant container. P501—Dispose of contents and/or container (See Section 13) in accordance with local/regional/national/ international regulations.

Methods for Cleaning Up: Mop up small spills for proper waste processing and disposal.

Protective Equipment: Wear impervious spray/splash protection.

Methods and Material for Containment and Cleaning Up

**Environmental Precautions** 

For Containment: Water absorbant pads

neutral salt solution and conain for proper waste processing and disposal.

### 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 cleaning stainless steel or aluminum articles on 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 525 H.D. Stainless Steel Cleaner/Polish/Passivator is intended to clean, degrease and passivate stainless steel surfacesand applied as is to dissolve and remove residual corrosion with high pressure hot or cold water. See Product Application Sheet or Label QR for safe intended use.

Emergency Procedures: Neutralize with copious amounts of water or alkaline solutions to achieve a

### Section 8: Exposure controls / personal protection

Control Parameters ACGIH TLV: 4 ppm (TWA) OSHA PO: 45 mg/m<sup>3</sup> (STEL) NIOSH REL: 25 ppm (TWA)

### **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.

### Section 9: Physical and chemical properties

Personal Protective Equipment:



**Other Information:** Acid resistant GLOVES are always required to prevent unsuspected and prolonged acid solution pooling. In confined wash bays with minimal ventilation use NIOSH approved respirators for acid mist.

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): 1.07 Solubility in Water: Complete Partition coefficient: n-octanol/water: Not applicable. Viscosity: 1.5 centipoise @ 20°C. Explosion Data - Sensitivity to Mechanical Impact: Not applicable. Explosion Data - Sensitivity to Static Discharge: Not applicable.
Conditions to Avaid: Chloring or bleach
Conditions to Avoid: Chloring or bleach
Incompatible Materials: Chlorine bleach and strong alkali. Hazardous Decomposition Products: Hydrogen release from aluminum metal.
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: Irritation/redness/delayed burns. Symptoms/Injuries After Eye Contact: Stinging, irriversible eye damage. Symptoms/Injuries After Ingestion: Sore throat/burns/ulceration. Information on Toxicological Effects - Ingredients Large doses can change the body's pH and electrolyte balance.
Other Adverse Effects Other Information: No unusual adverse effects encountered.
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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

### 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

## Provincial Waste Class: Waste stream to be determined for treatment method.

regulations. Tetra-Chem Industries Ltd. is licensed by the Ministry of the Environment

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



and Climate Change for waste management.

Ontario Certificate of Approval # A 800506.

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (Phosphoric 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.

### Section 16: Other information

Prepared by: Health and Safety committee Contact: A. Struthmann (Hon. BSc.) Telephone: 1-519-536-1617 Date prepared: 2023-03-02 USA: All ingredients are listed on the TSCA Toxic Substances Control Act.

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.