# Safety Data Sheet

## Section 1: Product identification and use

## **Product Identifier:** Process Identifier:

## **TCI 521 H.D.**

Supplier's name and address:

## Non-residual aluminum article degreaser and etchant with matte finish on fuel tanks

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

#### Section 2: Hazard identification

#### **GHS Classification**

Corrosive To Metals: Category 1 Acute Toxicity: Category 1 & 2 Skin Corrosion/Irritation: Category 1A Eye Damage/Irritation: Category 1



#### Signal Word DANGER Hazard Statements H290 May be corrosive to metal. H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled.

#### 1:4 .....

Hazardous Ingredients:	CHEMICAL NAME	CAS NUMBER	CONCENTRATION [%]
nazardous ingredients.	Hydrofluoric acid 2-Butoxy Ethanol	7664-39-3	3-7
		111-76-2	1 - 5
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 Gluconate Gel 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 for 3-4 days when blinking. Seek medical attention. Ingestion: Burning sensation and ulceration just like acid reflux. Seek medical attention.	
Section 5: Fire-fighting measu	ires		
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.		<ul> <li>Advice for Firefighters</li> <li>Precautionary Measures Fire: Evaluate based on surrounding fire.</li> <li>Firefighting Instructions: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.</li> <li>Protection During Firefighting: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.</li> <li>Hazardous Combustion Products: Oxides of Carbon, Acid vapors.</li> </ul>	
Section 6: Accidental release	measures		
	ve Equipment and Emergency Procedures vious splash protection. Neutralize with copious amounts of		

For Emergency Personnel

For Containment: Water absorbant pads.

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

Additional Hazards When Processed: Use only Manufacturer supplied storage and/or dis-

Personal Protection Equipment required when cleaning stainless steel or aluminum articles on

Protective Equipment: Wear impervious splash protection.

Section 7: Handling and storage Precautions for Safe Handling

equipment.

Emergency Procedures: Neutralize with copious amounts of water or alkaline solutions to Emergency Procedures: Neutralize with copious amounts of water or alkaline solutions for achieve a neutral salt solution and conain for proper waste processing and disposal. proper waste processing and disposal. For large spills use containment and dike. **Environmental Precautions** Phone Number of your local authority for Emergency Spill Response: Methods and Material for Containment and Cleaning Up

## Phone: 519-485-4370 - Toll free: 888-658-5515

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. **Precautionary Statements** P260 Do not breathe dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P284 Wear respiratory protection. **Response Statements** P301+P310+P330 IF SWALLOWED: Immediately call POISON CENTER or doctor/physician. Rinse Mouth. Do not induce vomiting. P303+P361+P353 IF ON SKIN OR HAIR Immediately remove all contaminate dclothing. Rinse skin with water/shower. P304+P340+P310 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Remove contact lenses. Rinse cautiously with water for several minutes. P363 Wash contaminated clothing before reuse.

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## Incompatible Materials: Do not mix with other cleaners. Special Rules on Packaging: Consult Manufacturer or Supplier.

Protective Equipment: Wear impervious spray/splash protection.

Specific End Use(s) TCI 521 H.D. Non-Residual Aluminum Article Degreaser and Etchant is intended to clean, degrease and passivate aluminum surfaces and applied at 100:1 to dissolve and remove residual corrosion with high pressure cold water in a tunnel washer for matte finish.

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

Conditions for Safe Storage, Including Any Incompatibilities

pensing equipment. See GHS WORKPLACE LABEL in your work area.

Hygiene Measures: Do not eat, drink or smoke while using this product.

Technical Measures: Provide sufficient air exchange in application work areas. Storage Conditions: Keep only in original containers.

See Product Application Sheet or label QR for safe intended use.

## 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

Information on Basic Physical and Chemical Properties Physical State: Liquid. Appearance: Blue, water clear. Odour: Acidic. Odour Threshold: Not available. pH: 1 Relative Evaporation Rate (butylacetate=1): 0.3 Melting Point: Not applicable. Freezing Point: - 5°C Boiling Point: 100°C. Flash Point: Not applicable. Auto-ignition Temperature: 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.

### Section 11: Toxicological information

Information on Toxicological Effects - Product Acute Toxicity: Not available. LD<sub>50</sub> Data (Species-Route): 70 mg/kg (Rat - oral). LC<sub>50</sub> Data (Species-Route): 7 mg/l (Rat - inhalation) 4hrs. Skin Corrosion/Irritation: Redness/delayed burns (Acute exposure). Serious Eye Damage/Irritation: Stinging, Corneal injury (Acute exposure). Serious Eye Damage/Irritation: Not suspected. Germ Cell Mutagenicity: Not suspected. Teratogenicity: Not suspected. Carcinogenicity: Not suspected.

## Section 12: Ecological information

Toxicity: Not applicable when used as directed. Mobility in Soil: Neutralizes and binds to soil. Detergents are biodegradable.

#### 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

## 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

## Personal Protective Equipment:



Decomposition Temperature: Not applicable.

**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.

	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 Avoid: Chlorine or bleach. Incompatible Materials: Chlorine bleach and strong alkali. Hazardous Decomposition Products: Hydrogen release from aluminum metal.			
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osure). e exposure).	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, irreversible 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.

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.

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



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