

Safety Data Sheet

Section 1: Product identification and use

Product Identifier:

TCI 810 H.D.

Process Identifier:

Cold immersion multi-metal parts degreaser (aluminum, steel, magnesium) for aviation/automotive

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

Carcinogenicity: 1B

Reproductive Toxicity: 1B

Acute Toxicity - Oral: Category 4

Skin Corrosion/Irritation: Category 2

Serious Eye Damage/Eye Irritation: Category 2B

Pictograms



Signal Word

DANGER

Hazard Statements

H303 May be harmful if swallowed.

H315 Causes skin irritation.

H320 Causes eye irritation.

H333 May be harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H350 May cause cancer.

H360 May damage fertility.

Precautionary Statements

P202 Do not handle until all safety precautions have been read and understood.

P233 Keep container tightly closed.

P260 Do not breathe vapours.

P262 Do not get in eyes, on skin or clothing.

P270 Do not eat, drink or smoke when using this product.

P271 Use in a well ventilated area.

P273 Avoid release into the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

P284 Wear respiratory protection.

Response Statements

P308+P313 IF exposed or concerned: Get medical advice/attention.

P305+P351+P338+P337 IF exposed or concerned: Get medical advice/attention.

P303+P361+P353+P352 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P306+P361+P363 F ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

Section 3: Composition / information on ingredients

Hazardous Ingredients:

CHEMICAL NAME

Dichloromethane

2-Aminoethanol

N-Methyl-2-pyrrolidone

CAS NUMBER

75-09-2

141-43-5

872-50-4

CONCENTRATION [%]

10-30

7-15

30-60

Section 4: First aid measures

Description of First Aid Measures

General: Follow general guidelines in Section 2.

Inhalation: Excessive exposure - move the fresh air. Apply CPR if not breathing.

Skin Contact: Remove contaminated clothing. Wash with soap and 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: Assess the degree of exposure. Assess responders risk and protection.

Inhalation: Respiratory irritation and possible dizziness.

Skin Contact: Irritation caused by defatting of skin.

Eye Contact: Itching irritation, redness.

Ingestion: Drying sensation with gastrointestinal irritation.

Section 5: Fire-fighting measures

Extinguishing Media

Suitable Extinguishing Media: Assess surrounding conditions. Dry chemical powder, Carbon dioxide, Alcohol or polymer foam.

Unsuitable Extinguishing Media: Solvent will sink to the bottom of water.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Know the Fire Extinguisher location at your workstation.

Explosion Hazard: None under normal conditions. Volatile when heated. Do not weld, torch or cut drums containing residual vapours. Vapours may be in the flammable range and an explosion

may occur.

Reactivity: Stable under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Keep away from High Energy Ignition Sources. Solvent will not float on water and spread of fire.

Firefighting Instructions: Keep the container cool.

Protection During Firefighting: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous Combustion Products: Oxides of Carbon, hydrogen halide.

Section 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Highly volatile. Vapors are heavier than air and settle in pits. Evacuate people in immediate area to the outdoors. Ventilate area: all windows and doors open until smell is gone.

For Non-Emergency Personnel

Protective Equipment: Non-slip footwear, safety glasses, NIOSH approved Organic Vapor Respirator and impervious protective gloves for splash protection: Nitrile, Neoprene or Butyl Gloves.

Emergency Procedures: Evacuate and ventilate area. Stop mobility using suitable oil absorbing materials for small spills. Large spills are not likely in this dedicated application.

Phone Number of your local authority for Emergency Spill Response:

For Emergency Personnel

Protective Equipment: Non-slip footwear, safety glasses, NIOSH approved Organic Vapor Respirator and impervious protective gloves for splash protection: Nitrile, Neoprene or Butyl Gloves.

Emergency Procedures: Evacuate and ventilate area. Stop mobility using suitable oil absorbing materials for small spills. Large spills are not likely in this dedicated application.

Environmental Precautions

Methods and Material for Containment and Cleaning Up

For Containment: Stop mobility with enclosed steel containers.

Methods for Cleaning Up: Large spills are not likely but should be contained and resultant waste properly classified prior to disposal (See Section 13).

Section 7: Handling and storage

Precautions for Safe Handling

Additional Hazards When Processed: See GHS WORKPLACE LABEL in your work area. Keep container closed when not in use.

Hygiene Measures: Personal Protection Equipment required when cleaning or degreasing parts.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Provide sufficient air exchange in work rooms.

Storage Conditions: Stored in well ventilated area away from excessive heat, sparks and open flame.

Incompatible Materials: This product has an approved dedicated application.

Consult Manufacturer or Supplier for compatibility.

Special Rules on Packaging: Consult Manufacturer or Supplier.

Specific End Use(s) TCI 810 H.D. is a Non-Residual Multi-Metal Immersion decarbonizing degreaser cleaner and paint stripper for **aluminum, steel and magnesium** for aviation, automotive and industrial duties. After immersion rinse with HI-pressure cold water to remove dissolved soil from internal/external parts.

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

Section 8: Exposure controls / personal protection

Control Parameters

ACGIH TLV: 0.1 - 0.2% by weight (1 - 2 mg/L) or 1,000 - 2,000 ppm

OSHA PEL: Not Established.

Exposure Controls

Appropriate Engineering Controls: Adequate ventilation to meet exposure limits by removing the hazard from the work environment.

Personal Protective Equipment:



Other Information: Handle in accordance with good workplace hygiene and safety practices and procedures. Solvent splash protection butyl rubber gloves should be selected and worn.

Section 9: Physical and chemical properties

Information on Basic Physical and Chemical Properties

Physical State: Liquid.

Appearance: Clear amber.

Odour: Clean characteristic smell.

Odour Threshold: Not available.

pH: 11.

Relative Evaporation Rate (butyl acetate=1): > 4.7

Melting Point: -110°C.

Freezing Point: -110°C

Boiling Point: 40°C

Flash Point: 91°C.

Auto-ignition Temperature: > 270°C

Decomposition Temperature: Not determined.

Flammability (solid/gas): Not determined.

Lower Flammable Limit: 3.8% by volume.

Upper Flammable Limit: 9.5% by volume.

Vapour Pressure: 134 mmHg @ 25°C

Relative Vapour Density at 20°C: > 4.24 @ 760 mmHg

Relative Density (water = 1): 1.31

Solubility in Water: Negligible.

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

Viscosity: 1 centipoise.

Explosion Data - Sensitivity to Mechanical Impact: No.

Explosion Data - Sensitivity to Static Discharge: No.

Section 10: Stability and reactivity

Reactivity: Stable.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: No decomposition under normal degreasing/cleaning conditions.

Conditions to Avoid: Excessive heat, flames and sparks.

Incompatible Materials: Strong Oxidizing Agents, Alkalies and Natural Rubber.

Hazardous Decomposition Products: Oxides of Carbon and Hydrogen Chloride Acid Vapours.

Section 11: Toxicological information

Information on Toxicological Effects—Product

Acute Toxicity: No toxicity below 500 ppm

LD₅₀ Data (Species—Route): RAT - oral: > 4.3 g/kg

LC₅₀ Data (Species—Route): RAT - inhalation: > 50K ppm 30 min; 14K ppm 4 hr.

Skin Corrosion/Irritation: Mild irritation with prolonged exposure defatting.

Serious Eye Damage/Irritation: May cause mild, short-lasting discomfort.

Respiratory or Skin Sensitization: Possible in some susceptible individuals.

Germ Cell Mutagenicity: No available evidence.

Teratogenicity: No available evidence.

Carcinogenicity: NTP: reasonably anticipated, IARC: not listed.

Specific Target Organ Toxicity (Repeated Exposure): Central Nervous System,

Reproductive System, Respiratory System, Kidney and Liver.

Reproductive Toxicity: No available evidence.

Specific Target Organ Toxicity (Single Exposure): No available evidence.

Aspiration Toxicity Hazard: Chemical pneumonitis or pulmonary edema.

Symptoms/Injuries After Inhalation: Headache, dizziness, nausea, vomiting or narcosis. Irritating to the respiratory tract.

Symptoms/Injuries After Skin Contact: None

Symptoms/Injuries After Eye Contact: Itching/Redness may occur.

Symptoms/Injuries After Ingestion: Gastrointestinal irritation and diarrhoea.

Information on Toxicological Effects—Ingredients

All ingredients synergistically defat skin.

Section 12: Ecological information

Toxicity: Not expected to be harmful to aquatic organisms or demonstrate chronic toxicity. None of the ingredients are hazardous atmospheric pollutants.

Mobility in Soil: Expected to be readily hydrolysed. No bioaccumulation.

Other Adverse Effects

Other Information: VOC's (EPA method 24) Not Determined g/L.

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: 241 H

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: TOXIC LIQUID, ORGANIC, N.O.S., (Dichloromethane)

Hazard Class: 6.1

Identification Number: UN 1593

Packing Group: III

Label/Placard Codes: 6 (INHALATION HAZARD)

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. B.Sc.

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.