

Safety Data Sheet

Section 1: Product identification and use

Product Identifier:

TCI 5400 H.D.

Process Identifier:

Non-foaming alkali stable biodegradable cleaner degreaser additive

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 3
Eye Damage/Irritation: Category 2/2A

Pictograms



Signal Word

Warning

Hazard Statements

H316 Causes mild skin irritation.
H319 Causes serious eye irritation.

Precautionary Statements

P261 Avoid breathing mist or spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Remove contact lenses. Rinse with cold water.
P312 If swallowed call POISON CENTER if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists get medical advice/attention.

Section 3: Composition / information on ingredients

Hazardous Ingredients:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION [%]
Dipropylene glycol monomethyl ether	34590-94-8	60-100

CAS NUMBER

34590-94-8

CONCENTRATION [%]

60-100

Section 4: First aid measures

Description of First Aid Measures

General: Low risk to adverse health effects.

Inhalation: Excessive exposure - move the fresh air.

Skin Contact: Wash with cold 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: Low risk to adverse health effects.

Inhalation: Respiratory irritation and possible dizziness.

Skin Contact: Irritation caused by defatting of skin.

Eye Contact: Itching irritation, redness.

Ingestion: Burning sensation with gastrointestinal irritation.

Section 5: Fire-fighting measures

Extinguishing Media

Suitable Extinguishing Media: Water spray or Dry chemical.

Unsuitable Extinguishing Media: Not available.

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.

Reactivity: Stable under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Solvent soluble in water. Solvent will not float on water. Water reduces the spread of fire.

Firefighting Instructions: Keep the container cool.

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

Hazardous Combustion Products: Oxides of Carbon and particulate matter in smoke.

Section 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Spills on floors are slippery.

For Non-Emergency Personnel

Protective Equipment: Non-slip footwear, safety glasses and protective gloves.

Emergency Procedures: Ventilate area if indoor temperatures reach 30°C plus.

Mop up small spills and dispose to sanitary sewer. No threat of large spills exist.

Phone Number of your local authority for Emergency Spill Response:

For Emergency Personnel

Protective Equipment: Non-slip footwear, safety glasses and protective gloves.

Emergency Procedures: Ventilate area if indoor temperatures reach 30°C plus.

Environmental Precautions

Methods and Material for Containment and Cleaning Up

For Containment: Stop mobility with oil absorbent.

Methods for Cleaning Up: Mop up small spills and dispose to sanitary sewer.

Product is only utilized in contained quantities. No threat of large spills exist.

Section 7: Handling and storage

Precautions for Safe Handling

Additional Hazards When Processed: None.

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

Personal Protection Equipment required when cleaning equipment

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Provide sufficient air exchange in work areas.

Storage Conditions: Keep only in original containers away from excessive heat.

Incompatible Materials: Water will deactivate the solvent's cleaning performance and chemical activity. Long time exposure will affect Natural Rubber and most paint coatings. Short term and repeated exposure are safe on all water safe surfaces.

Special Rules on Packaging: Consult Manufacturer or Supplier.

Specific End Use(s) TCI 5400 H.D. Non-foaming alkali stable biodegradable degreaser additive is a Non-Toxic Aqueous Solvent for the removal of protective oils, dirt, ink, uncured paints at 3.5% in hot water at 60 C in a laundry machine for approximately 10-20 min.

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

Section 8: Exposure controls / personal protection

Control Parameters

ACGIH TLV: 100 ppm (SKIN) 24 mg/m³ (TWA) 8hrs

OSHA STEL: 150 ppm (SKIN)

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: Handle in accordance with good hygiene and safety practices and procedures. Solvent resistant butyl gloves should be selected and worn.

Section 9: Physical and chemical properties

Information on Basic Physical and Chemical Properties

Physical State: Liquid.

Appearance: Viscous, clear as water.

Odour: Clean ethereal aroma.

Odour Threshold: 35 ppm

pH: Neutral

Relative Evaporation Rate (butyl acetate=1): 0.02

Melting Point: Not applicable.

Freezing Point: - 68°C

Boiling Point: 195°C

Flash Point: 85°C

Auto-ignition Temperature: 210°C

Decomposition Temperature: Not determined.

Flammability (solid/gas): Not determined.

Lower Flammable Limit: 0.85% by volume

Upper Flammable Limit: 24.6% by volume

Vapour Pressure: 0.38 mmHg @ 25°C

Relative Vapour Density at 20°C: > 5.1

Relative Density (water = 1): 0.95

Solubility in Water: Soluble.

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

Viscosity: 3.5 centipoise @ 25°C

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.

Hazardous Decomposition Products: Oxides of Carbon and particulate matter in smoke.

Section 11: Toxicological information

Information on Toxicological Effects—Product

Acute Toxicity: Inhalation 500-600 ppm (no mortality)

LD₅₀ Data (Species—Route): MOUSE - oral: 2.4 g/kg RABBIT - dermal: 2.8 g/kg

LC₅₀ Data (Species—Route): RAT - inhalation: > 2.1 mg/l over 4hrs

Skin Corrosion/Irritation: Mild to no irritation with prolonged exposure.

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: No available evidence.

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

Reproductive Toxicity: No available evidence.

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

Aspiration Toxicity Hazard: No available evidence.

Symptoms/Injuries After Inhalation: No available evidence.

Symptoms/Injuries After Skin Contact: None

Symptoms/Injuries After Eye Contact: Itching/Tearing/Redness

Symptoms/Injuries After Ingestion: Gastrointestinal irritation and diarrhea.

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 biodegradable.

Other Adverse Effects

Other Information: VOC's (EPA method 24) 770g/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: Waste stream to be determined for treatment method.

Section 14: Transport information

TDGA CANADA - DANGEROUS GOODS: **NON-REGULATED**

49 CFR (USA) DANGEROUS GOODS: **NON-REGULATED**

IMDG (VESSEL) DANGEROUS GOODS: **NON-REGULATED**

IATA (CARGO AIR) DANGEROUS GOODS: **NON-REGULATED**

IMDG (PASSENGER AIR) DANGEROUS GOODS: **NON-REGULATED**

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

Proper Shipping Name:

Hazard Class:

Identification Number:

Packing Group:

Label/Placard Codes:

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: 2023-02-28

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.