Safety Data Sheet

Section 1: Product identification and use

Product Identifier: **TCI 2000-70 H.D.**

Process Identifier: Deionized windshield washer fluid (–71°C) ready-to-use

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
Acute Toxicity: Category 3
Flammable Liquids: Category 3
Specific Target Organ Toxicity, Single Exposure: Category 1

Pictograms

Signal Word
DANGER

Hazard Statements
H301 Toxic if swallowed.
H326 Flammable liquid and vapour.
P210 Keep away from heat/sparks/open flames/hot surfaces. NO smoking.
H370 Causes damage to organs (Ingestion may lead to blindness)

Precautionary Statements
P102 Keep out of reach of children.
P264 Wash...thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+310 IF SWALLOWED: Immediately call a POISON CENTER/doctor..
P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P370+378 In case of fire: Use dry chemical, water spray for extinction.

Section 3: Composition / information on ingredients

Hazardous Ingredients:	CHEMICAL NAME	CAS NUMBER	CONCENTRATION [%]
	Methanol	67-56-1	40–70

Section 4: First aid measures

Description of First Aid Measures
General: POISON: Immediately call a POISON CONTROL CENTER/doctor
Inhalation: Excessive exposure - move the fresh air. If breathing has stopped or is labored give oxygen or artificial respiration if needed..
Skin Contact: Remove contaminated clothing. 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: POISON: Immediately call a POISON CONTROL CENTER/doctor
Danger of very serious irreversible effects. Susceptible target organs are central nervous system, skin, eye, kidney and liver with disorders possible.
Inhalation: Respiratory irritation and possible headache, dizziness and nausea.
Skin Contact: Absorption through skin.
Eye Contact: Itching irritation, redness.
Ingestion: Gastrointestinal irritation, vomiting and diarhea. Can be fatal or cause blindness if swallowed.

Section 5: Fire-fighting measures

Extinguishing Media
Suitable Extinguishing Media: Dry chemical. Water Spray to keep product cool.
Unsuitable Extinguishing Media: Water may be ineffective.
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. Keep away from High Energy Ignition Sources.
Reactivity: Stable under normal conditions.

Advice for Firefighters
Precautionary Measures Fire: Remove all sources of ignition. Ventilate area. Methanol can burn with an invisible flame.
Firefighting Instructions: Keep the product container cool.
Protection During Firefighting: Wear full protecive gear. 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. Use non-sparking tools.
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.
Remove sources of ignition. Mop up small spills and dispose to sanitary sewer or evaporate to air.
Use Non-Sparking equipment. Large spills are not likely but should be contained and resultant waste properly classified prior to disposal (See Section 13).

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 absorbant.
Methods for Cleaning Up: Mop up small spills and dispose to sanitary sewer.
Use Non-Sparking equipment. 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: Dispose of wipes in recovery or salvage containers for flammable liquids that meet fire safety codes and regulations.
See GHS WORKPLACE LABEL in your work area.
Hygiene Measures: Personal Protection Equipment required when spraying.
Conditions for Safe Storage, Including Any Incompatibilities
Technical Measures: Provide sufficient air exchange in work areas.

Storage Conditions: Only stored in original containers with vented caps away from excessive heat.
Incompatible Materials: This product has a safe approved dedicated application. Consult Manufacturer or Supplier for compatibility.
Special Rules on Packaging: Consult Manufacturer or Supplier.
Specific End Use(s) TCI 2000-70 H.D. Deionized Windshield Washer Fluid (–71C) and Bug Splatter Cleaner is for use in windshield washer fluid reservoirs in automobiles, buses and trucks. See Product Application Sheet for safe intended use.

Section 8: Exposure controls / personal protection

Control Parameters
ACGIH TLV (STEL) 250 ppm or 200 ppm (TWA)
NIOSH TLV (STEL) 250 ppm or 325 ml/m^3 (STEL)
NIOSH TLV (TWA) 200 ppm or 260 ml/m^3 (TWA)

Exposure Controls
Appropriate Engineering Controls: Adequate ventilation to meet exposure limits by removing the hazard from the work environment. If adequate ventilation is not available use NIOSH approved air purifying respirator with organic vapor cartridge or canister.

Personal Protective Equipment:

Other Information: Handle in accordance with good hygiene and safety practices and procedures. Nitrile solvent resistant gloves should be selected and worn if necessary.

Section 9: Physical and chemical properties

Information on Basic Physical and Chemical Properties
Physical State: Liquid.
Appearance: Clear, light blue.
Odour: Alcohol.
Odour Threshold: Not determined.
pH: Not applicable.
Relative Evaporation Rate (butylacetate=1): 3.2
Melting Point: Not applicable.
Freezing Point: -71°C
Boiling Point: 80°C
Flash Point: 34°C
Auto-ignition Temperature: 455°C

Decomposition Temperature: Not determined.
Flammability (solid/gas): Flammable
Lower Flammable Limit: 6% by volume
Upper Flammable Limit: 31% by volume
Vapour Pressure: 38 mmHg @ 20°C
Relative Vapour Density at 20°C: > 1
Relative Density (water = 1): 0.95
Solubility in Water: Complete.
Partition coefficient: n-octanol/water: Not determined.
Viscosity: 1 centipoise
Explosion Data - Sensitivity to Mechanical Impact: No
Explosion Data - Sensitivity to Static Discharge: High Energy Ignition Sources.

Section 10: Stability and reactivity

Reactivity: Stable.
Chemical Stability: Stable under normal conditions.
Possibility of Hazardous Reactions: No decomposition under normal cleaning conditions.

Conditions to Avoid: Excessive heat, flames and sparks.
Incompatible Materials: Strong Oxidizing and Reducing Agents.
Hazardous Decomposition Products: Oxides of Carbon, formaldehyde and smoke.

Section 11: Toxicological information

Information on Toxicological Effects—Product
Acute Toxicity: > 15,000mg/kg
LD_{50} Data (Species-Route): RAT - oral: >5 g/kg RABBIT - dermal: >15.8 g/kg
LC_{50} Data (Species-Route): RAT - inhalation: > 130 g/m^3 over 4hrs
Skin Corrosion/Irritation: Mild irritation with prolonged exposure.
Serious Eye Damage/Irritation: May cause irritation with severe pain and discomfort.
Respiratory or Skin Sensitization: No available evidence.
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: Chemical pneumonitis or pulmonary edema.
Symptoms/Injuries After Inhalation: No available evidence.
Symptoms/Injuries After Skin Contact: None or mild irritation.
Symptoms/Injuries After Eye Contact: Itching/Redness
Symptoms/Injuries After Ingestion: Gastrointestinal irritation, vomiting and diarrhea.
Information on Toxicological Effects—Ingredients
All ingredients synergistically lead to health complications.

Section 12: Ecological information

Toxicity: Low acute toxicity to aquatic organisms and demonstrates no bioaccumulation. None of the ingredients are hazardous atmospheric pollutants.
Mobility in Soil: Hi mobility in soil and expected to be readily biodegradable.

Other Adverse Effects
Other Information: VOC's (EPA method 24) 695g/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: 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: Canutec 1-888-CANUTEC (1-888-226-8832)

Proper Shipping Name: ALCOHOLS, N.O.S. (Methanol)
Hazard Class: CLASS 3,
UN 1987,
PG III
Label/Placard Codes: 3

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.