

Safety Data Sheet

Section 1: Product identification and use

Product Identifier:

TCI 3000-50 H.D.

Process Identifier: Engine coolant/antifreeze: Premixed 50/50 corrosion inhibited ethylene glycol – green (-40°C)

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

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 (Dermal)—Category 4
Acute Toxicity (Inhalation)—Category 4
Acute Toxicity (Oral)—Category 4
Reproductive Toxicity—Category 2
Specific Target Organ Toxicity, Repeated Exposure—Category 2

Pictograms



Signal Word

Danger

Hazard Statements

H302—Harmful if swallowed.
H312—Harmful in contact with skin.
H332—Harmful if inhaled.
H361—Suspected of damaging the unborn child.
H373—May cause damage to kidneys through prolonged or repeated exposure.

Precautionary Statements

P201—Obtain special instructions before use.
P202—Do not handle until all safety precautions have been read and understood.
P260—Do not breathe the mist or vapours.
P261—Avoid breathing mist, vapours or spray.
P264—Wash exposed skin thoroughly after handling.
P270—Do not eat, drink, or smoke when using this product.
P271—Use only outdoors or in a well-ventilated area.
P280—Wear protective gloves and eye protection.
P301+P312—IF SWALLOWED: Call Hospital emergency physician if you feel unwell.
P302+P352—IF ON SKIN: Wash with plenty of water for 2 minutes.
P304+P340—IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310—Immediately call Hospital emergency physician if you feel unwell.
P312—Call Hospital emergency physician if you feel unwell.
P314—Get medical attention if you feel unwell.
P321—Specific treatment for ethylene glycol poisoning.
P330—Rinse mouth.
P308+P313—IF exposed or concerned: Get medical advice.
P361+P364—Take off immediately all contaminated clothing and wash it before reuse.
P405—Store locked up.
P501—Dispose of contents in accordance with local/regional/national/international regulation as specified in Section 13. Return containers to supplier.

Section 3: Composition / information on ingredients

Hazardous Ingredients:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION [%]
Ethylene Glycol	107-21-1	30 - 60
Deionized Water	732-18-5	30 - 60
Diethylene Glycol	111-46-6	1-5

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 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: Low risk to adverse health effects.
Inhalation: Respiratory irritation and possible dizziness.
Skin Contact: Irritation caused by drying of skin.
Eye Contact: Itching irritation, redness.
Ingestion: Ingestion may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects.

Section 5: Fire-fighting measures

Extinguishing Media

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: No information 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: Keep away from High Energy Ignition Sources.
Firefighting Instructions: Keep the container cool.
Protection During Firefighting: Wear self-contained breathing apparatus for firefighting 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: Stop mobility using suitable absorbing materials for small spills.
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: Stop mobility using suitable absorbing materials for small spills.
Environmental Precautions
Methods and Material for Containment and Cleaning Up
For Containment: Stop mobility with suitable absorbent.
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.
Hygiene Measures: Do not eat, drink or smoke while using this product.
Personal Protection Equipment required when handling.
Conditions for Safe Storage, Including Any Incompatibilities
Technical Measures: Provide sufficient air exchange in work rooms.
Storage Conditions: Only stored in original containers until application ready.

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 3000-50 H.D. Green Corrosion Inhibited Ethylene Glycol Engine Coolant 50/50 is a ready to use deionized water blend for agricultural, industrial, automotive and heavy truck radiator heat transfer cooling systems.

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

Section 8: Exposure controls / personal protection

Control Parameters

Ethylene Glycol (as aerosol) 100 mg/m³ Ceiling ACGIH TLV
Diethylene Glycol 10 mg/m³ TWA AIHA WEEL

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 hygiene and safety practices and procedures.

Section 9: Physical and chemical properties

Information on Basic Physical and Chemical Properties

Physical State: Liquid.

Appearance: Clear Green.

Odour: Clean odourless smell.

Odour Threshold: Not available.

pH: 8.

Relative Evaporation Rate (butylacetate=1): Not determined

Melting Point: Not applicable.

Freezing Point: -40°C

Boiling Point: 105°C

Flash Point: No Flash at 100°C.

Auto-ignition Temperature: 410°C

Decomposition Temperature: Not determined.

Flammability (solid/gas): Not determined.

Lower Flammable Limit: Not determined.

Upper Flammable Limit: Not determined.

Vapour Pressure: < 0.1 mmHg @ 20°C

Relative Vapour Density at 20°C: > 5.6 @ 758 mmHg

Relative Density (water = 1): 1.07

Solubility in Water: Complete.

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

Viscosity: 21 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 conditions.

Conditions to Avoid: Excessive heat, flames and sparks.

Incompatible Materials: Strong Oxidizing Agents, Acids.

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

Section 11: Toxicological information

Information on Toxicological Effects—Product

Acute Toxicity: > 5,000 mg/kg

LD₅₀ Data (Species—Route): RAT - oral: 4.70 g/kg RABBIT - dermal: 9.53 g/kg

LC₅₀ Data (Species—Route): Not listed.

Skin Corrosion/Irritation: Mild irritation, prolonged exposure drying effect.

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): May cause adverse kidney.

Reproductive Toxicity: No available evidence.

Specific Target Organ Toxicity (Single Exposure): Central Nervous System effects.

Aspiration Toxicity Hazard: Chemical pneumonitis or pulmonary edema.

Symptoms/Injuries After Inhalation: No available evidence.

Symptoms/Injuries After Skin Contact: None

Symptoms/Injuries After Eye Contact: Itching/Redness

Symptoms/Injuries After Ingestion: Gastrointestinal irritation and diarrhoea.

Information on Toxicological Effects—Ingredients

It is the metabolic toxic BY-PRODUCTS which first affect the CNS central nervous system, then the heart, and finally the kidneys ending as a fatality.

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: Mobile and expected to be readily biodegradable.

Other Adverse Effects

Other Information: VOC's (EPA method 24) excluded.

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: 212 L

Section 14: Transport information

CONTAINER QUANTITY EXEMPTION: ALL

TDGA CANADA - DANGEROUS GOODS: NOT-REGULATED

49 CFR (USA) DANGEROUS GOODS: NOT-REGULATED

IMDG (VESSEL) DANGEROUS GOODS: NOT-REGULATED

IATA (CARGO AIR) DANGEROUS GOODS: NOT-REGULATED

IMDG (PASSENGER AIR) DANGEROUS GOODS: NOT-REGULATED

ALL CONTAINER QUANTITIES:

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

Proper Shipping Name: NOT-REGULATED.

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. B.Sc.

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.