

Safety Data Sheet

Section 1: Product identification and use

Product Identifier:

TCI 3510 H.D.

Process Identifier:

RV plumbing anti-freeze concentrate (red) (ethanol base)

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 — Fax: 855-762-4446

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 — Fax: 855-762-4446

Section 2: Hazard identification

GHS Classification

Flammable Liquids: Category 3

Skin Irritation: Category 2

Eye irritation: Category 2A

Pictograms



Signal Word

WARNING

Hazard Statements

H315—Causes skin irritation.

H319—Causes severe eye irritation.

H226—Flammable liquid and vapour.

Precautionary Statements

P102—Keep out of reach of children.

P210—Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233—Keep container tightly closed.

P240—Ground or bond container and receiving equipment.

P241—Use explosion-proof electrical transfer equipment.

P242—Use only non-sparking tools.

P243—Take precautionary measures against static discharge.

P264—Wash hands thoroughly after handling.

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

P280—Wear protective gloves and eye protection.

P302+P352—IF ON SKIN: Wash with plenty of water.

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

P304+P340—IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338—IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P321—Specific treatment: rinse with water.

P332+P313—If skin irritation occurs: Get medical advice or attention.

P337+P313—If eye irritation persists get medical advice or attention.

P362+P364—Take off contaminated clothing and wash it before reuse.

P370+P378—In case of fire: Use dry chemical, water spray for extinction.

P403+P235—Store in a well ventilated place. Keep cool.

P501—Dispose of contents and container in accordance with local/regional/national/international regulations. Return to manufacturer for recycling.

Section 3: Composition / information on ingredients

Hazardous Ingredients:

CHEMICAL NAME

Ethanol

Propylene Glycol

CAS NUMBER

64-17-5

57-55-6

CONCENTRATION [%]

30-40

10-20

Section 4: First aid measures

Description of First Aid Measures

General: Take immediate action.

Inhalation: Excessive exposure - move to fresh air. If breathing has stopped or is laboured 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: 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, headache, dizziness, nausea and diarrhoea.

Section 5: Fire-fighting measures

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Water Spray to keep product cool.

Unsuitable Extinguishing Media: None known

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.

Ethanol can burn with an invisible flame.

Firefighting Instructions: Keep the product container cool.

Protection During Firefighting: Wear full protective 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 absorbent.

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.

Storage Conditions: Only stored in original containers 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.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Provide sufficient air exchange in work areas.

Specific End Use(s) TCI 3510 H.D. R.V. PLUMBING ANTI-FREEZE (-114 C) is intended for plumbing line water replacement in recreational vehicles while in off-season storage.

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

Section 8: Exposure controls / personal protection

Control Parameters

ACGIH TLV (STEL) 1,000 ppm (TWA)

OSHA PEL (TWA) 1,000 PPM

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 vapour 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, red.

Odour: Alcohol.

Odour Threshold: Not determined.

pH: Not applicable.

Relative Evaporation Rate (butylacetate=1): 2.4

Melting Point: Not applicable.

Freezing Point: -114°C

Boiling Point: 80°C

Flash Point: 34°C

Auto-ignition Temperature: 363°C

Decomposition Temperature: Not determined.

Flammability (solid/gas): Flammable

Lower Flammable Limit: 3.3% by volume

Upper Flammable Limit: 19% by volume

Vapour Pressure: 42 mmHg @ 20°C

Relative Vapour Density at 20°C: 1.59

Relative Density (water = 1): 0.98

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, and smoke.

Section 11: Toxicological information

Information on Toxicological Effects—Product

Acute Toxicity: > 15 g/kg

LD₅₀ Data (Species-Route): RAT - oral: 3.4 g/kg RABBIT - dermal: >15.8 g/kg

LC₅₀ Data (Species-Route): RAT - inhalation: > 21 g/m³ over 4hrs

Skin Corrosion/Irritation: Mild irritation with prolonged exposure.

Serious Eye Damage/Irritation: May cause irritation with severe 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, headache, dizziness, nausea and diarrhoea.

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: .

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: BULK QUANTITIES OF 450 L are regulated goods.

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)

TDGA: BULK QUANTITIES OF 450 L are regulated goods.



Proper Shipping Name: ALCOHOLS (Ethanol)

Hazard Class: CLASS 3,

Identification Number: UN 1987,

Packing Group 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

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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.