

# Safety Data Sheet

## Section 1: Product identification and use

### Product Identifier:

# TCI 117 H.D.

### Process Identifier:

Zero VOC, semiconductive, hi-flash point, hi-purity synthetic parts cleaning solvent

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

Flammable Liquids: Category 4  
Skin Corrosion/Irritation: Category 3  
Serious Eye Damage/Eye Irritation: Category 2B

### Pictograms

None

### Signal Word

Warning

### Hazard Statements

H227—Combustible liquid.  
H316—Causes mild skin irritation.  
H320—Causes eye irritation.

### Precautionary Statements

P210—Keep away from heat and sources of ignition. No Smoking.  
P264—Wash hands thoroughly with soap and water after handling  
P280—Wear protective gloves and eye protection.  
P305+P351+P338—IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.  
P332+P313—If skin irritation occurs: Get medical advice and/or attention.  
P337+P313—If eye irritation persists get medical advice and/or attention.  
P370+P378—In case of fire: Use dry chemical fire extinguisher.  
P403—Store in a well ventilated place.  
P501—Dispose of contents in accordance with local, regional, national and international government regulations. Return container to supplier for recycling.

## Section 3: Composition / information on ingredients

### Hazardous Ingredients:

#### CHEMICAL NAME

#### CAS NUMBER

#### CONCENTRATION [%]

No reportable Hazardous Substance

## 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 defatting of skin.  
**Eye Contact:** Itching irritation, redness.  
**Ingestion:** Burning sensation with gastrointestinal irritation.

## Section 5: Fire-fighting measures

### Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical.  
**Unsuitable Extinguishing Media:** Solvent will float on water and spread the fire.  
**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. Solvent will float on water and 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. Keep away from sources if ignition. Use Non-Sparking equipment. Stop mobility using suitable oil 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:** Ventilate area if indoor temperatures reach 30°C plus. Keep away from sources if ignition.  
**Environmental Precautions**  
**Methods and Material for Containment and Cleaning Up**  
**For Containment:** Stop mobility with suitable oil absorbent.  
**Methods for Cleaning Up:** 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:** None when stored in metal parts washer. See GHS WORKPLACE LABEL in your work area.  
**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:** Only stored in parts washers away from excessive heat.

**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 117 H.D.** Zero VOC, Semiconductive, Hi-Flash Point, Hi-Purity Synthetic Parts Cleaning Solvent is for cleaning oil and grease compositions found in automotive and industrial maintenance. This product meets the criteria set out by many municipalities for reporting annual purchases of: Volatile Organic Compounds.

See Product Application Sheet or label QR for safe intended use.

## Section 8: Exposure controls / personal protection

### Control Parameters

ACGIH TLV: 1,200 mg/m<sup>3</sup> (TWA) Total Hydrocarbon vapour

### 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. Solvent resistant neoprene gloves should be selected and worn.

## Section 9: Physical and chemical properties

### Information on Basic Physical and Chemical Properties

Physical State: Liquid.

Appearance: Clear as water.

Odour: Clean odourless smell.

Odour Threshold: Not available.

pH: Neutral.

Relative Evaporation Rate (butyl acetate=1): < 0.01

Melting Point: Not applicable.

Freezing Point: -77°C

Boiling Point: 257°C

Flash Point: > 95°C.

Auto-ignition Temperature: > 225°C

Decomposition Temperature: Not determined.

Flammability (solid/gas): Not determined.

Lower Flammable Limit: 0.6% by volume

Upper Flammable Limit: 4.9% by volume

Vapour Pressure: 0.09 mmHg @ 20°C

Relative Vapour Density at 20°C: > 6.5 @ 760 mmHg

Relative Density (water = 1): 0.791

Solubility in Water: Negligible.

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

Viscosity: 2.57 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 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: > 15,000mg/kg

LD<sub>50</sub> Data (Species-Route): RABBIT - dermal: >3.1 g/kg

LC<sub>50</sub> Data (Species-Route): No available evidence.

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: 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

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 and lead to dermatitis complications.

## 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) 0 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: Waste stream to be determined for treatment method.

## Section 14: Transport information

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

EMERGENCY ASSISTANCE: Not applicable

Proper Shipping Name: Not applicable

Hazard Class: Not applicable

Identification Number: Not applicable

Packing Group: Not applicable

Label/Placard Codes: Not applicable

## 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: 2023-03-01

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.