

# Safety Data Sheet

## Section 1: Product identification and use

### Product Identifier:

# TCI 104 H.D.

**Process Identifier:** Waterless heavy duty d-Limonene general purpose hand cleaner with moisturizers for healthy skin

24 H EMERGENCY: 1-800-424-9300

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

Eye Irritation—Category 2B

### Hazard Statements

H320—Causes eye irritation

### Pictograms

none

### Precautionary Statements

P264—Wash hands thoroughly with water after handling.  
P305+P351+P338—IF IN EYES: Remove contact lenses if present and easy to do - Rinse cautiously with water for several minutes. Cleaning fluid is water soluble.  
P337+P313—If eye irritation persists get medical advice or attention.

### Signal Word

Warning

## Section 3: Composition / information on ingredients

### Hazardous Ingredients:

#### CHEMICAL NAME

#### CAS NUMBER

#### CONCENTRATION [%]

1-methyl-4-(1-methylethenyl) cyclohexane

5989-27-5

7 -13

## Section 4: First aid measures

### Description of First Aid Measures

**General:** No risk under normal conditions of intended use.

**Inhalation:** No exposure risk.

**Skin Contact:** Wipe with cloth or paper towel or rinse with water.

**Eye Contact:** Remove contact lenses. Keep eye wide open and rinse with plenty of water or saline solution for 15 minutes.

**Ingestion:** DO NOT induce vomiting. Follow directions by medical personnel.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** No risk under normal conditions of intended use.

**Inhalation:** No exposure risk.

**Skin Contact:** Irritation and/or redness may develop on sensitive skin.

**Eye Contact:** Persistent redness and/or irritation requires medical attention.

**Ingestion:** Very low toxicity. Half life is 12-24hrs in Humans with the excretion of metabolites occurring primarily through the urine.

## Section 5: Fire-fighting measures

### Extinguishing Media

**Suitable Extinguishing Media:** Water spray or Dry chemical.

**Unsuitable Extinguishing Media:**

**Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** None under normal conditions.

**Explosion Hazard:** None under normal conditions.

**Reactivity:** Stable under normal conditions.

### Advice for Firefighters

**Precautionary Measures Fire:** Product could release flammable vapours when heated. Keep containers cool.

**Firefighting Instructions:** Consider the circumstances and the surrounding environment.

**Protection During Firefighting:** Wear self-contained breathing apparatus .

**Hazardous Combustion Products:** Oxides of Carbon, hydrocarbon fumes.

## Section 6: Accidental release measures

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Spills on floors are slippery.

### For Emergency Personnel

**Protective Equipment:** Non-slip footwear and safety glasses.

**Emergency Procedures:** None under normal storage and use conditions.

### For Non-Emergency Personnel

**Protective Equipment:** Non-slip footwear and safety glasses.

**Emergency Procedures:** Mop up small spills and dispose to sanitary sewer.

Product is only packaged in small containers. No threat of large spills exist to the consumers.

### Environmental Precautions

**Methods and Material for Containment and Cleaning Up**

**For Containment:** Product is a thick gel and is not mobile.

**Methods for Cleaning Up:** Mop up small spills and dispose to sanitary sewer. Product is only packaged in small containers. No threat of large spills exist to the consumers.

## Section 7: Handling and storage

### Precautions for Safe Handling

**Additional Hazards When Processed:** Avoid contact with eyes.

**Hygiene Measures:** Wipe with cloth or paper towel or rinse with water.

**Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Use only manufacturer's recommended dispensing equipment. Stainless Steel Drum dispensers and wall mount dispensers.

**Storage Conditions:** Ambient temperatures. Keep containers sealed.

**Incompatible Materials:** Oxidizing agents.

**Special Rules on Packaging:** Use only manufacturer's approved packaging.

**Specific End Use(s)** **TCI 104 H.D.** Natural Ingredient Heavy Duty General purpose Hand Cleaner is for cleaning all soil compositions found in agricultural, commercial, automotive and industrial maintenance settings.

Regular daily employment of this formulation prevents fingertip skin cracking during the dry - low humidity winter month.

Allow 30 days of regular use for these ingredients to promote and maintain skin health by thoroughly removing soil and harmful micro organisms thus restore soft hands.

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

---

## Section 8: Exposure controls / personal protection

### Control Parameters

ACGIH TLV: 865mg/m<sup>3</sup> (TWA)

### Exposure Controls

Appropriate Engineering Controls: Not normally required.

Personal Protective Equipment: Not normally required.

Other Information:

---

## Section 9: Physical and chemical properties

### Information on Basic Physical and Chemical Properties

Physical State: THICK CREAMY GEL

Appearance: Yellow

Odour: Clean ORANGE aroma.

Odour Threshold: 1 ppm

pH: 6.5

Relative Evaporation Rate (butyl acetate=1): 0.001

Melting Point: Not applicable

Freezing Point: -10°C

Boiling Point: 100°C

Flash Point: 61°C

Auto-ignition Temperature: 237°C

Decomposition Temperature: Not applicable.

Flammability (solid/gas): Not applicable.

Lower Flammable Limit: Not applicable.

Upper Flammable Limit: Not applicable.

Vapour Pressure: Not applicable.

Relative Vapour Density at 20°C: Not applicable.

Relative Density: 1.02

Solubility in Water: Complete

Partition coefficient: n-octanol/water: Oil in water emulsion.

Viscosity: 50-70,000 centipoise

Explosion Data - Sensitivity to Mechanical Impact: No.

Explosion Data - Sensitivity to Static Discharge: No.

---

## Section 10: Stability and reactivity

Reactivity: Stable under normal conditions.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Not applicable.

Conditions to Avoid: Not applicable.

Incompatible Materials: Strong Oxidizers.

Hazardous Decomposition Products: Oxides of Carbon, hydrocarbon fumes.

---

## Section 11: Toxicological information

### Information on Toxicological Effects - Product

Acute Toxicity: Calculation method estimate > 5,000 mg/kg.

LD<sub>50</sub> Data (Species-Route): RAT - oral: 4.4 g/kg RABBIT - dermal: 5 g/kg

LC<sub>50</sub> Data (Species-Route): RAT - inhalation: > 5.9 g/m<sup>3</sup> over 4hrs

Skin Corrosion/Irritation: Skin healing properties.

Serious Eye Damage/Irritation: Not likely to occur.

Respiratory or Skin Sensitization: Not likely to occur.

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 Hazard: No available incidence data.

Symptoms/Injuries After Inhalation: No available incidence data.

Symptoms/Injuries After Skin Contact: No available incidence data.

Symptoms/Injuries After Eye Contact: No available incidence data.

Symptoms/Injuries After Ingestion: No available incidence data.

### Information on Toxicological Effects - Ingredients

1-methyl-4-(1-methylethenyl) cyclohexane has shown very low toxicity.

Half life is 12-24hrs in Humans with the excretion of metabolites occurring primarily through the urine.

---

## Section 12: Ecological information

Toxicity: No available incidence data on the current use application.

Mobility in Soil: No available incidence data.

### Other Adverse Effects

Other Information: None of the ingredients are hazardous atmospheric pollutants.

---

## Section 13: Disposal considerations

Waste Disposal Recommendations: Consult Manufacturer or Supplier.

Additional Information: The cleaning process may generate a hazardous industrial waste.

Waste Class: Waste stream to be determined for treatment method..

Comply with US EPA's federal, state & local regulations.

---

## 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

Contact: A. Struthmann (Hon. BSc.)

Telephone: 1-519-536-1617

Date prepared: 2025-04-21

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.