

# Safety Data Sheet

## Section 1: Product identification and use

**Product Identifier:**

# TCI 2000 H.D.

**Process Identifier:**

## Methanol (99%)

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 (Oral, Dermal, Inhalation): Category 3

Flammable Liquids: Category 2

Health Hazard: Specific Target Organ Toxicity Following Single Exposure: Category 1

**Pictograms**



**Signal Word**

**DANGER**

**Hazard Statements**

H225 Highly flammable liquid and vapour.

H303+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H370 Causes damage to organs.

**Precautionary Statements**

P102 Keep out of reach of children.

P240 Ground and bond container and receiving equipment.

P241 Use explosion proof [electrical ventilating/lightning/...equipment.

P242 Use non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

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

P280 Wear protective gloves/protective clothing/eye and face protection.

P308+311 If exposed or concerned: Call a POISON CENTER/doctor/...

P402+P235 Store in a well ventilated place. Keep cool.

## Section 3: Composition / information on ingredients

**Hazardous Ingredients:**

**CHEMICAL NAME**

**Methanol**

**CAS NUMBER**

**67-56-1**

**CONCENTRATION [%]**

**80 - 100**

## 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 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:** POISON: Immediately call a POISON CONTROL CENTER/doctor

Danger of very serious irreversible effects. Susceptible target organs are central nervous system, skin, eye, kidney, spleen, liver and blood with persuing 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 diarrhea. 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 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 should be contained and reported immediately.

**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.

**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:** Do not eat, drink or smoke while using this product.

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 in a well ventilated area.

**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)** Consult Manufacturer or Supplier.

## Section 8: Exposure controls / personal protection

### Control Parameters

ACGIH TLV (STEL) 250 ppm or 200 ppm

NIOSH TLV (STEL) 250 ppm or 325 ml/m<sup>3</sup>

NIOSH TLV (TWA) 200 ppm or 260 ml/m<sup>3</sup>

### 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.

**Odour:** Alcohol.

**Odour Threshold:** Not determined.

**pH:** Not applicable.

**Relative Evaporation Rate (butylacetate=1):** 5.2

**Melting Point:** Not applicable.

**Freezing Point:** -98°C

**Boiling Point:** 65°C

**Flash Point:** 12°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):** 0.79

**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:** Vapors may form explosive mixtures with air.

**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<sub>50</sub> Data (Species—Route):** RAT - oral: >5 g/kg RABBIT - dermal: >15.8 g/kg

**LC<sub>50</sub> Data (Species—Route):** RAT - inhalation: > 130 g/m<sup>3</sup> 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**

**Ingredient can cause 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) 790g/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:** CANADA Canutec 1-888-CANUTEC (1-888-226-8832)



**Proper Shipping Name:** METHANOL

**Hazard Class:** CLASS 3 (6.1)

**Identification Number:** UN1230

**Packing Group:** II

**Label/Placard Codes:** 3 and 6.1

## 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.