

Safety Data Sheet

Section 1: Product identification and use

Product Identifier:

TCI 950 H.D.

Process Identifier: Aluminum/stainless steel metal welding prep degreaser (fast, non-flammable, quick drying, antispatter)

24H EMERGENCY: 613-996-6666

Manufacturer's name and address:

Comet Chemical
3463 Thomas Street, Innisfil ON L9S Canada
Phone: (705) 436-5580

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

Carcinogenicity: 2
Acute Toxicity - Oral: Category 4
Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2B
Pictograms



Signal Word

WARNING

Hazard Statements

H302—Harmful if swallowed.
H315—Causes skin irritation.
H320—Causes eye irritation.
H335—May cause respiratory irritation.
H336—May cause drowsiness or dizziness.
H351—Suspected of causing cancer.
H373—May cause damage to organs (Liver, Blood) 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.
P233—Keep container tightly closed.
P260—Do not breathe mist, vapors or spray.
P264—Wash hands thoroughly after handling.
P270—Do not eat, drink or smoke when using this product.
P271—Use in a well ventilated area.
P280—Wear protective gloves and eye protection.
P284—Wear respiratory protection.
P301+P312—IF SWALLOWED: Call a POISON CENTER or doctor at emergency if you feel unwell.
P302+P352—IF ON SKIN: Evaporate to the air.
P304+P340—IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338—IF IN EYES: Remove contact lenses, if present and easy to do.. Rinse cautiously with water for several minutes. Continue rinsing.
P308+P313—If exposed: Call a doctor at an emergency centre at the hospital.
P321—Specific treatment for inhalation (keep patient calm until dizziness subsides).
P330—Rinse mouth.
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.
P405—Store locked up.
P501—Dispose of contents and container (See Section 13) only in accordance with local/regional/national/international regulation .

Section 3: Composition / information on ingredients

Hazardous Ingredients:	CHEMICAL NAME	CAS NUMBER	CONCENTRATION [%]
	Dichloromethane	75-09-2	60-100

Section 4: First aid measures

Description of First Aid Measures

General: Follow general guidelines in Section 2.
Inhalation: Excessive exposure - move the fresh air. Apply CPR if not breathing.
Skin Contact: Remove contaminated clothing. 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: Assess the degree of exposure. Assess responders risk and protection.
Inhalation: Respiratory irritation and possible dizziness.
Skin Contact: Irritation caused by defatting of skin.
Eye Contact: Itching irritation, redness.
Ingestion: Drying sensation with gastrointestinal irritation.

Section 5: Fire-fighting measures

Extinguishing Media

Suitable Extinguishing Media: Assess surrounding conditions. Dry chemical powder, Carbon dioxide, Alcohol or polymer foam.
Unsuitable Extinguishing Media: Solvent will sink to the bottom of water.
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. Do not weld, torch or cut drums containing residual vapors. Vapors sink to the lowest level and may be in the flammable range and an explosion may occur given a source of ignition.

Reactivity: Stable under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Keep away from High Energy Ignition Sources. Solvent will not float on water and spread of fire.
Firefighting Instructions: Keep the container cool.
Protection During Firefighting: Wear self-contained breathing apparatus for firefighting if necessary.
Hazardous Combustion Products: Oxides of Carbon, hydrogen halide.

Section 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Highly volatile. Vapors are heavier than air and settle in pits. Evacuate people in immediate area to the outdoors. Ventilate area: all windows and doors open until smell is gone.
For Non-Emergency Personnel
Protective Equipment: Non-slip footwear, safety glasses, NIOSH approved Organic Vapor Respirator and impervious protective gloves for splash protection: Nitrile, Neoprene or Butyl Gloves.
Emergency Procedures: Evacuate and ventilate area. Stop mobility using suitable oil absorbing materials for small spills. Large spills are not likely in this dedicated application.
Phone Number of your local authority for Emergency Spill Response:

For Emergency Personnel

Protective Equipment: Non-slip footwear, safety glasses, NIOSH approved Organic Vapor Respirator and impervious protective gloves for splash protection: Nitrile, Neoprene or Butyl Gloves.
Emergency Procedures: Evacuate and ventilate area. Stop mobility using suitable oil absorbing materials for small spills. Large spills are not likely in this dedicated application.
Environmental Precautions
Methods and Material for Containment and Cleaning Up
For Containment: Stop mobility with enclosed steel containers.
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. Keep container closed when not in use.
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 well ventilated area away from excessive heat, sparks and open flame.
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 950 H.D. is a Non-Flammable, Non-Residual Multi-Metal Degreasing Solvent that may be utilized in the industrial setting of ALUMINUM and STAINLESS STEEL fabrication or any other surface cleaning application where oil, grease, bituminous deposits (ie. tar & asphalt) are a quality control problem. For hand cleaning jobs, apply a liberal amount of solvent to an absorbent cloth using a dish detergent type squirt bottle and wipe metal edges ready for welding.
Scan Label QR for Product Application Sheet and SDS for safe intended use.

Section 8: Exposure controls / personal protection

Control Parameters

ACGIH TLV: 50 ppm (8hr TWA)

OSHA PEL: 25 ppm

OSHA STEL: 125 ppm

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 workplace hygiene and safety practices and procedures. Solvent splash protection fluorinated rubber gloves. Minimum layer thickness: 0.7mm. Break through time: 148 minutes. Vitoject (KCL 890/Aldrich Z677698, size medium 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 characteristic ether smell.

Odour Threshold: Not available.

pH: Neutral.

Relative Evaporation Rate (butyl acetate=1): 0.71

Melting Point: -97°C.

Freezing Point: -97°C

Boiling Point: 40°C

Flash Point: None Tag Closed Cup (ASTM D 56).

Auto-ignition Temperature: > 556°C

Decomposition Temperature: Not determined.

Flammability (solid/gas): Not determined.

Lower Flammable Limit: 12% by volume.

Upper Flammable Limit: 19% by volume.

Vapour Pressure: 353 mmHg @ 20°C

Relative Vapour Density at 20°C: > 2.93@ 760 mmHg

Relative Density (water = 1): 1.32

Solubility in Water: Negligible.

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

Viscosity: 1 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. Contains 2-Methyl-2-butene (0.0005 - 0.0015%) as a stabilizer.

Possibility of Hazardous Reactions: No decomposition under normal degreasing/cleaning conditions.

Conditions to Avoid: Excessive heat, flames and sparks.

Incompatible Materials: Strong Oxidizing Agents, Alkali metals, Strong acids and bases, Vinyl compounds and Natural Rubber.

Hazardous Decomposition Products: Oxides of Carbon, Hydrogen Halide and Acid Vapours.

Section 11: Toxicological information

Information on Toxicological Effects—Product

Acute Toxicity: No toxicity below 500 ppm

LD₅₀ Data (Species-Route): RAT - oral: > 2 g/kg

LC₅₀ Data (Species-Route): RAT - inhalation: > 52 g/m³

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: NTP: reasonably anticipated, IARC: 2B - Group 2B possibly anticipated.

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

Reproductive Toxicity: No available evidence.

Specific Target Organ Toxicity (Single Exposure): Oral: Liver and Blood.

Aspiration Toxicity Hazard: Chemical pneumonitis or pulmonary edema.

Symptoms/Injuries After Inhalation: Headache, dizziness, nausea, vomiting or narcosis. Irritating to the respiratory tract.

Symptoms/Injuries After Skin Contact: None

Symptoms/Injuries After Eye Contact: Itching/Redness may occur.

Symptoms/Injuries After Ingestion: Gastrointestinal irritation and diarrhea.

Information on Toxicological Effects—Ingredients

All ingredients synergistically defat skin.

Section 12: Ecological information

Toxicity: Low toxicity to aquatic organisms or demonstrates chronic toxicity.

Ingredients contribute to global warming.

Mobility in Soil: No available evidence.

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: 241 H

Section 14: Transport information

TDGA CANADA - DANGEROUS GOODS: REGULATED RQ: 454 kg

DOT (USA) 49 CFR DANGEROUS GOODS: REGULATED RQ 454 kg

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: UN1593, DICHLOROMETHANE,

Hazard Class: 6.1

Identification Number: UN1593

Packing Group: III

Label/Placard Codes: 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. B.Sc.

Telephone: 1-519-536-1617

Date prepared: 2017-10-14

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.