

Safety Data Sheet

Section 1: Product identification and use

Product Identifier:

TCI 1236 H.D.™

Process Identifier:

Hot aqueous recirculating immersion cleaner for engine manifolds and accessories

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

Skin Corrosion/Irritation: Category 3

Eye Damage/Irritation: Category 2/2A

Pictograms



Signal Word

WARNING

Hazard Statements

H316 Causes mild skin irritation.

H319 Causes serious eye irritation.

Precautionary Statements

P264 Wash...thoroughly after handling.

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

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.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

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

Section 3: Composition / information on ingredients

Hazardous Ingredients:

CHEMICAL NAME
Sodium metasilicate

CAS NUMBER

6834-92-0

CONCENTRATION [%]

1 - 5

Section 4: First aid measures

Description of First Aid Measures

General: Determine areas of exposure.

Inhalation: Excessive exposure - move the fresh air.

Skin Contact: 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: Low risk to adverse health effects.

Inhalation: Respiratory irritation or sore throat.

Skin Contact: Mild skin irritation.

Eye Contact: The delayed effect symptoms are a scaly rash for 3-4 days when blinking. Seek medical attention.

Ingestion: Mild irritation just like acid reflux. Seek medical attention.

Section 5: Fire-fighting measures

Extinguishing Media

Suitable Extinguishing Media: Evaluate based on surrounding fire.

Unsuitable Extinguishing Media: Evaluate based on surrounding fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: No risk.

Explosion Hazard: No risk.

Reactivity: No risk.

Advice for Firefighters

Precautionary Measures Fire: Evaluate based on surrounding fire.

Firefighting Instructions: Evaluate based on surrounding fire.

Protection During Firefighting: Evaluate based on surrounding fire.

Hazardous Combustion Products: Oxides of Carbon.

Section 6: Accidental release measures Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Wear impervious splash protection. Neutralize with copious amounts of water or safe acid solutions and flush to sanitary sewers if at pH > 8.5.

If contaminated, contain the spill and collect in plastic containers.

For Non-Emergency Personnel

Protective Equipment: Wear impervious splash protection.

Emergency Procedures: Neutralize with copious amounts of water or safe acid solutions and flush to sanitary sewers if the pH is below 8.5 and above 5.5.

Phone Number of your local authority for Emergency Spill Response:

For Emergency Personnel

Protective Equipment: Wear impervious splash protection.

Emergency Procedures: Neutralize with copious amounts of water or safe acid solutions and flush to sanitary sewers when the pH is below 8.5 and above 5.5.

Environmental Precautions

Methods and Material for Containment and Cleaning Up

For Containment: Water/oil absorbant pads.

Methods for Cleaning Up: Mop up small spills and dispose to sanitary sewer.

Section 7: Handling and storage

Precautions for Safe Handling

Additional Hazards When Processed: Use only Manufacturer supplied storage and/or dispensing equipment. See GHS WORKPLACE LABEL in your work area.

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

Personal Protection Equipment required for cleaning process.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Provide sufficient air exchange in application work areas.

Storage Conditions: Keep only in original containers.

Incompatible Materials: Do not mix with other cleaners.

Special Rules on Packaging: Consult Manufacturer or Supplier.

Specific End Use(s) TCI 1236 H.D. Hot aqueous recirculating immersion cleaner for engine manifolds and accessories. This cleaner is designed to be used at 10% to clean carbonaceous deposits as well as heavy grease and oils from comonents on transportation equipment.

See Product Application Sheet for safe intended use.

Section 8: Exposure controls / personal protection

Control Parameters

ACGIH TLV: **Not Established**

OSHA PEL: **Not Established**

Exposure Controls

Appropriate Engineering Controls: Adequate ventilation to meet exposure limits by removing the hazard from an inside or outside work environment. The chemical constituents of the cleaning solution do not evaporate but can be atomized by spraying or misting.

Personal Protective Equipment:



Other Information: Alkali resistant GLOVES are NOT always required. Even in confined wash areas with minimal ventilation the use of NIOSH approved respirators and splash protection for alkaline mist when rinsing parts are NOT required.

Section 9: Physical and chemical properties

Information on Basic Physical and Chemical Properties

Physical State: **Liquid.**

Appearance: **Clear with green color.**

Odour: **Detergent.**

Odour Threshold: **Not available.**

pH: **11.5**

Relative Evaporation Rate (butylacetate=1): **0.3**

Melting Point: **Not applicable.**

Freezing Point: **0°C**

Boiling Point: **100°C.**

Flash Point: **Not applicable.**

Auto-ignition Temperature: **Not applicable.**

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 (water=1): **1.03**

Solubility in Water: **Complete**

Partition coefficient: n-octanol/water: **Not applicable.**

Viscosity: **20 centipoise @ 20°C.**

Explosion Data - Sensitivity to Mechanical Impact: **Not applicable.**

Explosion Data - Sensitivity to Static Discharge: **Not applicable.**

Section 10: Stability and reactivity

Reactivity: **Stable.**

Chemical Stability: **Stable.**

Possibility of Hazardous Reactions: **None when used as directed.**

Conditions to Avoid: **Strong oxidizers.**

Incompatible Materials: **None when used as directed.**

Hazardous Decomposition Products: **None when used as directed.**

Section 11: Toxicological information

Information on Toxicological Effects - Product

Acute Toxicity: **Not available.**

LD₅₀ Data (Species-Route): **Not available.**

LC₅₀ Data (Species-Route): **Not available.**

Skin Corrosion/Irritation: **Mild irritant**

Serious Eye Damage/Irritation: **Moderate corneal injury: Rabbit 1 mg/24hrs**

Respiratory or Skin Sensitization: **Not suspected.**

Germ Cell Mutagenicity: **Not suspected.**

Teratogenicity: **Not suspected.**

Carcinogenicity: **Not suspected.**

Specific Target Organ Toxicity (Repeated Exposure): **Not available.**

Reproductive Toxicity: **Not suspected.**

Specific Target Organ Toxicity (Single Exposure): **Not suspected.**

Aspiration Hazard: **Not anticipated.**

Symptoms/Injuries After Inhalation: **Irritation/tingling sensation.**

Symptoms/Injuries After Skin Contact: **Slight irritation/dryness.**

Symptoms/Injuries After Eye Contact: **Itching/Tearing Redness irritation.**

Symptoms/Injuries After Ingestion: **Sore throat/severe irritation.**

Information on Toxicological Effects - Ingredients

Large doses can change the body's pH and electrolyte balance.

Section 12: Ecological information

Toxicity: **Not applicable when used as directed.**

Mobility in Soil: **Neutralizes and turns to salt in soil. Detergents are biodegradable.**

Other Adverse Effects

Other Information: No unusual adverse effects encountered.

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: CANADA Canutec 1-888-CANUTEC (1-888-226-8832)

Proper Shipping Name:

Hazard Class:

Identification Number:

Packing Group:

Label /Placard Codes:

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.