

Safety Data Sheet

Section 1: Product identification and use

Product Identifier:

TCI 103 H.D.

Process Identifier: General purpose alkali/solvent cleaner & degreaser (spray/wipe, brush and immersion)

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.

P332+P313—If skin irritation occurs: Get medical advice/attention.

P337+P313—If eye irritation persists get medical advice/attention.

Section 3: Composition / information on ingredients

Hazardous Ingredients:

CHEMICAL NAME

CAS NUMBER

CONCENTRATION [%]

Sodium metasilicate

6834-92-0

1 - 5

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

5989-27-5

5 - 10

2-Butoxy Ethanol

111-76-2

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 or neutralize with 5% vinegar solution.

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.

Skin Contact: Mild skin irritation.

Eye Contact: The alkali solution can travel to the back of the eye ball and corrode the optic nerve if sprayed directly into the eyes. The delayed effect symptoms are a scaly rash for 3-4 days when blinking. Seek medical attention.

Ingestion: Burning sensation 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 contaminate, 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 if the pH is below 8.5 and above 5.5.

Environmental Precautions

Methods and Material for Containment and Cleaning Up

For Containment: Water/oil absorbent 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 103 H.D. is a General Purpose Alkali/Solvent Cleaner and Degreaser Concentrate. (Spray/Wipe, Brush and Immersion) 10:1 dilution applications are thus designed to be pre-sprayed on any water safe surface on areas for composite soils such as dirt oil/grease removal.

Scan Label QR for Product Application Sheet and SDS for safe intended use.

Section 8: Exposure controls / personal protection

Control Parameters
ACGIH TLV:
OSHA PEL:

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.

Section 9: Physical and chemical properties

Information on Basic Physical and Chemical Properties

Physical State: Liquid.
Appearance: Clear with fluorescent orange 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): 1.04
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): (Rat - oral) 273 mg/kg.
LC₅₀ Data (Species-Route): Not available.
Skin Corrosion/Irritation: Minor skin drying effect.
Serious Eye Damage/Irritation: Minor 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/scaly sensation.
Symptoms/Injuries After Ingestion: Sore mouth and throat/skin burns.
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: 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: 2023-03-02

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.