Safety Data Sheet

Section 1: Product identification and use

Product Identifier: **TCI 605-35 H.D.**

Process Identifier: Hydrogen peroxide (35%) water sanitizer for rust and odour control

24 H 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)—Category 4
Acute Toxicity (Inhalation)—Category 4
Skin Irritation—Category 2
Serious Eye Damage—Category 1
Specific Target Organ Toxicity, Single Exposure—Category 3
Oxidizing Liquids—Category 2

Pictograms

Signal Word
Danger

Hazard Statements
H272—May intensify fire; oxidizer.
H302—Harmful if swallowed.
H315—Causes skin irritation.
H318—Causes serious eye damage.
H332—Harmful if inhaled.
H335—May cause respiratory irritation.
H336—May cause drowsiness or dizziness.

Precautionary Statements
P210—Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P220—Keep or Store away from clothing, flammable materials and combustible.
P221—Take any precaution to avoid mixing with combustibles and flammables.
P261—Avoid breathing mist and or spray.
P264—Wash hands thoroughly after handling.
P270—Do not eat, drink or smoke when using this product.
P271—Use only outdoors or in a well-ventilated area.
P280—Wear protective gloves, protective clothing, eye protection and face protection.
P301+P312—IF SWALLOWED: Call hospital emergency department doctor if you feel unwell.
P302+P352—IF ON SKIN: Wash with plenty of water and soap.
P304+P340—IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338—IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310—Immediately call hospital emergency department doctor.
P312—Call hospital emergency department doctor if you feel unwell.
P321—Specific treatment (use antioxidants ie. Vitamin E & C moisturizers).
P330—Rinse mouth.
P332+P313—If skin irritation occurs: Get medical advice or attention.
P362+P364—Take off all contaminated clothing and wash it before reuse.
P370+P378—In case of fire: Use water for extinction.
P403+P233—Store in a well ventilated place. Keep container tightly closed.
P405—Store locked up.
P501—Dispose of contents in accordance with local, regional, national and international government regulations. Return container to supplier for recycling.

Section 3: Composition / information on ingredients

Hazardous Ingredients:	CHEMICAL NAME	CAS NUMBER	CONCENTRATION [%]
	Hydrogen peroxide	7722-84-1	35

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: If conscious, give 2 glasses of water. Get immediate medical attention. Do not induce vomiting.
Most Important Symptoms and Effects Both Acute and Delayed
General: Low risk to adverse health effects.
Inhalation: Inhalation may cause coughing, choking, irritation (possibly severe) chemical burns, shortness of breath, and pulmonary oedema. Pulmonary oedema may develop several hours after a severe acute exposure.
Skin Contact: Skin irritation or burns.
Eye Contact: Eye exposures may cause burns to the eye lids, conjunctivitis, corneal oedema, and corneal burns. Careful opthalmologic evaluation is recommended and the possibility of local corticosteroid therapy should be considered.
Ingestion: Because of the likelihood of corrosive effects on the gastrointestinal tract after ingestion, and the unlikelihood of systemic effects, attempts at evacuating the stomach via emesis induction or gastric lavage should be avoided. There is a remote possibility, however, that a nasogastric or orogastric tube may be required for the reduction of severe distension due to gas formation.

Section 5: Fire-fighting measures

Extinguishing Media
Suitable Extinguishing Media: Water only.
Unsuitable Extinguishing Media: All others.
Special Hazards Arising From the Substance or Mixture
Fire Hazard: Corrosive caustic vapours at high temperatures.
Explosion Hazard: No risk.
Reactivity: No risk.

Advice for Firefighters
Precautionary Measures Fire: In closed unventilated containers, risk of rupture due to the increased pressure from decomposition. Contact with combustible material may cause fire.
Firefighting Instructions: On decomposition product releases oxygen which may intensify fire.
Protection During Firefighting: Use water spray to cool fire exposed surfaces and protect personnel. Move containers from fire area if you can do it without risk. As in any fire, wear self-contained breathing apparatus and full protective gear
Hazardous Combustion Products: Oxygen gas.

Section 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures
General Measures: Wear impervious splash protection. Neutralize with copious amounts of water.
For Non-Emergency Personnel
Protective Equipment: Wear impervious splash protection.
Emergency Procedures: Mop up small spills with water and flush to sanitary sewers. Large spills should be contained and reported immediately.
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.
Environmental Precautions
Methods and Material for Containment and Cleaning Up
For Containment: Plastic.
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.
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 605-35 H.D. Hydrogen Peroxide 35%
a. Residual chlorine neutralizer in recycled waste water.
b. Domestic water sanitizer with rust precipitation and odour control.
Scan Label QR for Product Application Sheet and SDS for safe intended use.

Section 8: Exposure controls / personal protection

Control Parameters
ACGIH TLV: 1 ppm **(TWA)**
OSHA PEL: **1.4 mg/m^3** **1 ppm (TWA)**
Exposure Controls
Appropriate Engineering Controls: Adequate ventilation to meet exposure limits by removing the hazard from an inside or outside work environment.

Personal Protective Equipment:

Other Information: Acid resistant GLOVES are always required. In confined wash areas with minimal ventilation use NIOSH approved respirators and splash protection for oxidizer mist when rinsing parts.

Section 9: Physical and chemical properties

Information on Basic Physical and Chemical Properties
Physical State: Liquid.
Appearance: Colourless.
Odour: No odour.
Odour Threshold: Not available.
pH: 3.7
Relative Evaporation Rate (butyl acetate=1): 0.3
Melting Point: Not applicable.
Freezing Point: –33°C
Boiling Point: 100°C.
Flash Point: Not applicable.
Auto-ignition Temperature: Not applicable.
Decomposition Temperature: 100°C
Flammability (solid/gas): Not applicable.
Lower Flammable Limit: Not applicable.
Upper Flammable Limit: Not applicable..
Vapour Pressure: 23 mm Hg @ 30°C
Relative Vapour Density at 20°C: Not applicable..
Relative Density (water=1): 1.13 g/cm^3 @ 20°C
Solubility in Water: Complete
Partition coefficient: n-octanol/water: log Kow = -1.5 @ 20 °C.
Viscosity: 1.1 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: Contact with organic substances may cause fire or explosion. Contact with metals, metallic ions, alkalis, reducing agents and organic matter (such as alcohols or terpenes) may produce self-accelerated thermal decomposition
Incompatible Materials: Combustible materials. Copper alloys, galvanized iron. Strong reducing agents. Heavy metals. Iron. Copper alloys. Contact with metals, metallic ions, alkalis, reducing agents and organic matter (such as alcohols or terpenes) may produce self-accelerated thermal decomposition
Hazardous Decomposition Products: Oxygen gas.

Section 11: Toxicological information

Information on Toxicological Effects - Product
Acute Toxicity: Not available.
LD_{50} Data (Species-Route): (Rat - oral): 1193 mg/kg; (Rabbit - dermal) > 2000 mg/kg
LC_{50} Data (Species-Route): (mouse - inhalation) > 2160 mg/m^3
Skin Corrosion/Irritation: Severe irritant: Human/Rabbit 10,000 mg/kg 1hr
Serious Eye Damage/Irritation: Serious 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): Eyes, Respiratory System, Skin.
Aspiration Hazard: Not anticipated.
Symptoms/Injuries After Inhalation: Irritation/burning sensation.
Symptoms/Injuries After Skin Contact: Slight itchy irritation/skin whitening observed.
Symptoms/Injuries After Eye Contact: Stinging/scaly sensation.
Symptoms/Injuries After Ingestion: Sore itchy throat/burns.
Information on Toxicological Effects - Ingredients

Section 12: Ecological information

Toxicity: Not applicable when used as directed.
Mobility in Soil: Neutralizes and turns to Oxygen and water in soil.
Other Adverse Effects
Other Information: Non-toxic to aquatic life. Freshwater Fish , Invertebrate. Toxic to Algae.

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: HYDROGEN PEROXIDE, (AQUEOUS SOLUTION)
Hazard Class: 5.1 **Subsidiary class:** 8
Identification Number: UN2014
Packing Group: II
Label /Placard Codes: 5.1

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: 2023-03-02
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.