

# Safety Data Sheet

## Section 1: Product identification and use

Product Identifier:

# TCl Hand Sanitizer NPN: 80098195

Process Identifier:

IF SOAP & WATER ARE NOT AVAILABLE: Dispense onto palm of hands, rub thoroughly for 30 seconds until dry

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 — Fax: 855-762-4446

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 — Fax: 855-762-4446

## Section 2: Hazard identification

### GHS Classification

Physical Hazard: Flammable Liquids: Category 2

Health Hazard: Specific Target Organ Toxicity Following Single Exposure: Category 3

Health Hazard: Serious Eye Damage/Eye Irritation: Category 2A

### Pictograms



### Signal Word

Danger

### Hazard Statements

H225—Highly flammable liquid and vapour.

H319—Causes serious eye irritation.

H335—May cause respiratory irritation.

H336—May cause drowsiness or dizziness.

### Precautionary Statements

P210—Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233—Keep container tightly closed.

P240—Ground and bond container and receiving equipment.

P241—Use explosion-proof electrical, ventilating, lighting, and equipment.

P242—Use only non-sparking tools.

P243—Take precautionary measures against static discharge.

P261—Avoid breathing mist, vapours, or spray.

P264—Wash hands thoroughly after handling.

P271—Use in a well-ventilated area.

P280—Wear protective gloves, protective clothing, eye protection, face protection.

P303+P361+P353—IF ON SKIN (or hair): Evaporates quickly

P304+P340—IF INHALED: Remove person to fresh air and keep 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.

P312—Call a POISON CENTER/doctor or hospital emergency department if you feel unwell.

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

P370+P378—In case of fire: Use a fire extinguisher to extinguish. (see Section 5)

P403+P233—Store in a well ventilated place. Keep container tightly closed.

P403+P235—Store in a well ventilated place. Keep cool.

P405—Store locked up.

P501—Dispose of contents (see Section 13) Dispose containers to recycling bin in accordance with local regulations.

## Section 3: Composition / information on ingredients

Hazardous Ingredients:

CHEMICAL NAME

Isopropanol

CAS NUMBER

67-63-0

CONCENTRATION [%]

70

## Section 4: First aid measures

### Description of First Aid Measures

**General:** Get medical advice/attention if feeling unwell. Take SDS to attending medial staff.

**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.

Immediately call a POISON CONTROL CENTER/doctor

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Get medical advice/attention if feeling unwell. Take SDS to attending medial staff.

**Inhalation:** Respiratory irritation and possible headache, dizziness and nausea.

**Skin Contact:** Fast evaporating.

**Eye Contact:** Itching irritation, redness.

**Ingestion:** Harmful if swallowed. Gastrointestinal irritation, vomiting and diarrhoea.

## Section 5: Fire-fighting measures

### Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical. Water Spray. Foam. Carbon dioxide.

**Unsuitable Extinguishing Media:** Water is effective.

### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Extremely flammable. 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.

Isopropanol can burn with an invisible flame.

**Firefighting Instructions:** Keep the product container cool with water spray.

**Protection During Firefighting:** Wear full protective gear including flame retardant coat. Wear

self-contained breathing apparatus for fire fighting if necessary.

**Hazardous Combustion Products:** Oxides of Carbon.

## 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. Eliminate all

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:** Eliminate all sources of ignition. Ventilate area if indoor temperatures

reach 30°C plus. Take precautionary measures against static discharge.

### 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:** Take precautionary measures against static discharge. Dispose of wipes in recovery or salvage containers for flammable liquids that meet fire safety codes and regulations. Ground container with high conductive clamp on cables when transferring liquid to eliminate static electric sparks.

See GHS WORKPLACE LABEL in your work area.

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

Personal Protection Equipment required.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Provide sufficient air exchange in work areas or best to use outdoors only  
**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)** TCl Hand Sanitizer is a solution of 70% ISOPROPANOL for topical application.

## Section 8: Exposure controls / personal protection

### Control Parameters

ACGIH TLV (STEL) 400 ppm or 980mg/m<sup>3</sup>  
NIOSH TLV (STEL) 500 ppm or 1.225mg/m<sup>3</sup>  
ACGIH TLV (TWA) 200 ppm

### 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 vapour cartridge or canister.  
**BIOLOGICAL LIMIT VALUES:** 40 mg/l as acetone end of shift at the end of work week.

### 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:** Rubbing alcohol.  
**Odour Threshold:** Not determined.  
**pH:** Not applicable.  
**Relative Evaporation Rate (n-butyl acetate=1):** 2.8  
**Melting Point:** Not applicable.  
**Freezing Point:** -88°C  
**Boiling Point:** 82°C  
**Flash Point:** 12°C  
**Auto-ignition Temperature:** 399°C

**Decomposition Temperature:** Not determined.  
**Flammability (solid/gas):** Flammable  
**Lower Flammable Limit:** 2% by volume  
**Upper Flammable Limit:** 12.7% by volume  
**Vapour Pressure:** 45 mmHg @ 25°C  
**Relative Vapour Density at 20°C:** 2.1  
**Relative Density (water = 1):** 0.79  
**Solubility in Water:** Complete.  
**Partition coefficient: n-octanol/water:** Log Kow 0.05.  
**Viscosity:** Not determined.  
**Explosion Data - Sensitivity to Mechanical Impact:** No  
**Explosion Data - Sensitivity to Static Discharge:** High Energy Ignition Sources.

## Section 10: Stability and reactivity

**Reactivity:** Vapours 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.

## 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: > 12.8 g/kg  
**LC<sub>50</sub> Data (Species-Route):** RAT - inhalation: > 130 g/m<sup>3</sup> over 4hrs  
**Skin Corrosion/Irritation:** Mild irritation, drying or cracking with prolonged exposure.  
**Serious Eye Damage/Irritation:** May serious eye irritation with severe pain and discomfort.  
**Respiratory or Skin Sensitization:** Not a skin sensitizers.  
**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:** Narcotic effect, respiratory tract irritation.  
**Symptoms/Injuries After Skin Contact:** None or mild irritation.  
**Symptoms/Injuries After Eye Contact:** Itching/Redness  
**Symptoms/Injuries After Ingestion:** Gastrointestinal irritation, vomiting and diarrhoea.  
**Information on Toxicological Effects—Ingredients**  
None known.

## 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:** ISOPROPANOL SOLUTION



**Hazard Class:** CLASS 3  
**Identification Number:** UN1219  
**Packing Group:** II  
**Label/Placard Codes:** 3

## 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:** 2020-07-02

**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.