

SAFETY DATA SHEET

**Hand Sanitizer** 

Date of Preparation: March 17, 2020

#### **Section 1: IDENTIFICATION**

Product Name: Hand Sanitizer

Synonyms: Not available.

Product Use: Hand Sanitizer.

Restrictions on Use: Not available.

Manufacturer/Supplier: Triton Cleaning Products

(A Division of Fluid Energy Group Ltd.)

#1500, 140 - 10 Ave SE, Calgary, AB, T2G 0R1

**Phone Number:** +1 (403) 463-5843

Emergency Phone: Chemtrec (US & Canada) 1-800-424-9300

Chemtrec (outside the US & Canada) 1-703-537-3887

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# Section 2: HAZARD(S) IDENTIFICATION

# **GHS INFORMATION**

Classification: Flammable Liquids, Category 2

Eye Irritation, Category 2A

Specific Target Organ Toxicity (Single Exposure), Category 3 - Narcotic Effects

## LABEL ELEMENTS

Hazard

Pictogram(s):



Signal Word: Danger

Hazard Highly flammable liquid and vapor. Statements: Causes serious eye irritation.

May cause drowsiness or dizziness.

## **Precautionary Statements**

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

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

Use non-sparking tools.

Take action to prevent static discharges. Avoid breathing mist, vapours, or spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing and eye protection.

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor if you feel unwell.

If eye irritation persists: Get medical attention.

In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish.

Storage: Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Store locked up.

**Disposal:** Dispose of contents/container in accordance with applicable regional, national

and local laws and regulations.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: None.

This material is considered hazardous by the Hazardous Products Regulations.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS			
Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.
Ethanol	Not available.	64-17-5	70 - 80
2-Propanol	Isopropyl alcohol	67-63-0	1 - 5
Hydrogen peroxide (H2O2)	Hydrogen peroxide	7722-84-1	0.1 - 1
Non-Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.
Water	Not available.	7732-18-5	10 - 30
1,2,3-Propanetriol	Glycerin	56-81-5	1 - 5

Actual concentration range(s) withheld as a trade secret.

# **Section 4: FIRST-AID MEASURES**

Inhalation: If used as recommended, no first-aid measures are necessary. If handling

large amounts of vapour is inhaled, remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If breathing or the heart stops, trained personnel should immediately begin

artificial respiration (AR) or cardiopulmonary resuscitation (CPR)

respectively. Get medical attention immediately.

Acute and delayed symptoms and effects: Normal use is not expected to cause any adverse effects. Excessive inhalation may cause headache, dizziness, confusion, loss of appetite and/or loss of consciousness.

**Eye Contact:** If in eyes: Rinse cautiously with water for at least 20 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice/attention.

Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Ethanol may cause painful sensitization to light, chemical



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conjunctivitis and corneal damage. Isopropanol may cause transient

corneal injury.

**Skin Contact:** If used as recommended, no first-aid measures are necessary. If in

contact with large amounts of product: Rinse skin with water or shower.

Call a poison center or doctor if you feel unwell.

Acute and delayed symptoms and effects: No adverse effects are expected under normal conditions of use. Handling of large amounts may cause

skin dryness and/or irritation.

Ingestion: If swallowed: Call a poison center or doctor if you feel unwell. If vomiting

> occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If breathing or the heart stops, trained personnel should immediately begin artificial respiration (AR) or cardiopulmonary resuscitation (CPR) respectively. Get

medical attention immediately.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset,

nausea, vomiting and diarrhea.

**General Advice:** In case of accident or if you feel unwell, seek medical advice immediately

(show the label or SDS where possible).

**Note to Physicians:** Symptoms may not appear immediately.

# Section 5: FIRE-FIGHTING MEASURES

# FLAMMABILITY AND EXPLOSION INFORMATION

Highly flammable liquid and vapor. Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Liquid is lighter than water.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

**Sensitivity to Mechanical Impact:** This material is not sensitive to mechanical impact. Sensitivity to Static Discharge:

Take action to prevent static discharges. This material is

sensitive to static discharge.

MEANS OF EXTINCTION

**Suitable Extinguishing Media:** Small Fire: Dry chemical, CO2, water spray or alcohol-

resistant foam.



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Large Fire: Water spray, fog or alcohol-resistant foam. Move

containers from fire area if you can do it without risk.

Unsuitable Extinguishing Media: Do not use straight streams. CAUTION: This product has a

very low flash point: Use of water spray when fighting fire

may be inefficient.

**Products of Combustion:** Oxides of carbon, Acrolein.

**Protection of Firefighters:** Inhalation or contact with material may irritate or burn skin

and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation. Runoff from fire control may cause pollution. Wear positive pressure solf-contained broathing apparatus (SCRA). Structural

self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited

protection.

# **Section 6: ACCIDENTAL RELEASE MEASURES**

**Emergency Procedures:** As an immediate precautionary measure, isolate spill or leak area

for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in

immediate area). All equipment used when handling the product

must be grounded.

**Personal Precautions:** Do not touch or walk through spilled material. Use personal

protection recommended in Section 8.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined

areas.

**Methods for Containment:** Stop leak if you can do it without risk. A vapor suppressing foam

may be used to reduce vapors.

Methods for Clean-Up: Absorb or cover with dry earth, sand or other non-combustible

material and transfer to containers. Use clean non-sparking tools

to collect absorbed material.

**Other Information:** See Section 13 for disposal considerations.

## **Section 7: HANDLING AND STORAGE**

# Handling:

Do not swallow. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing mist, vapours, or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. See Section 8 for information on Personal Protective Equipment.

#### Storage:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.



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#### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

# Exposure Guidelines Component

Ethanol [CAS No. 64-17-5]

**ACGIH:** 1000 ppm (TWA); A3 (2008)

**OSHA:** 1000 ppm (TWA), 1900 mg/m³ (TWA);

Isopropyl alcohol [CAS No. 67-63-0]

ACGIH: 200 ppm (TWA); 400 ppm (STEL); A4; BEI (2001)

**OSHA:** 400 ppm (TWA), 980 mg/m<sup>3</sup> (TWA);

500 ppm (STEL) [Vacated];

Hydrogen peroxide [CAS No. 7722-84-1]

**ACGIH:** 1 ppm (TWA); A3 (1990)

OSHA: 1 ppm (TWA), 1.4 mg/m<sup>3</sup> (TWA);

Water [CAS No. 7732-18-5]

**ACGIH:** No TLV established. **OSHA:** No PEL established.

Glycerin [CAS No. 56-81-5]

ACGIH: No TLV established.

**OSHA:** 15 mg/m³ (Total particulate) (TWA), 5 mg/m³ (Respirable fraction) (TWA);

10 mg/m³ (Total particulate) (TWA) [Vacated];

PEL: Permissible Exposure Limit TLV: Threshold Limit Value TWA: Time-Weighted Average STEL: Short-Term Exposure Limit

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels

of dust, fume, vapour, gas, etc.) below recommended exposure limits. Use explosion-proof electrical, ventilating,

and lighting equipment.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye/Face Protection: Wear chemical safety goggles when handling large amounts

of product. Ensure that eyewash stations are close to the workstation location. Use equipment for eye protection that

meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 for Personal Protective Equipment.

Hand Protection: Wear protective gloves when handling large amounts of

product. Consult manufacturer specifications for further

information.

**Skin and Body Protection:** Wear protective clothing when handling large amounts of

product. Flame resistant clothing that meets the NFPA 2112



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and CAN/CGSB 155.20 standards is recommended in areas

where material is stored or handled.

Respiratory Protection: Not necessary under normal conditions of use. If handling

large amounts of product, if engineering controls and

ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4-11, with organic vapor cartridge,

or self-contained breathing apparatus must be used.

Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed

the limits of the air-purifying respirators.

General Hygiene Considerations: Handle according to established industrial hygiene and

safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to

ensure adequate protection.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear liquid.

Colour: Colourless.

Odour: Alcohol.

Odour Threshold: Not available.

Physical State: Liquid.

pH: Not available.

**Melting Point / Freezing** 

Point:

Not available.

Initial Boiling Point: 78 °C (172.4 °F) (Ethanol)

Boiling Range: Not available.

Flash Point: 12 °C (53.6 °F) (Closed Cup - Ethanol)

Evaporation Rate: Not available.

Flammability (solid, gas): Not applicable.

Lower Flammability Limit: Not available.

Upper Flammability Limit: Not available.

Vapor Pressure:Not available.Vapor Density:Not available.

**Relative Density:** 0.850 (Water = 1)

**Solubilities:** Miscible in water.

Partition Coefficient: n-

Octanol/Water:

Not available.



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Auto-ignition Temperature: 400 °C (752 °F) (Ethanol)

**Decomposition** Not available.

Temperature:

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Viscosity: Not available.

Percent Volatile, wt. %: Not available.

VOC content, wt. %: Not available.

Density: Not available.

Coefficient of Water/Oil Not available.

Distribution:

Section 10: STABILITY AND REACTIVITY

**Reactivity:** Contact with incompatible materials. Sources of ignition. Exposure to

heat.

**Chemical Stability:** Stable under normal storage conditions.

**Possibility of Hazardous** 

Reactions:

None known.

**Conditions to Avoid:** Contact with incompatible materials. Sources of ignition. Exposure to

heat.

**Incompatible Materials:** Acids. Strong oxidizers.

Hazardous Decomposition Products: Not available.

## Section 11: TOXICOLOGICAL INFORMATION

# **EFFECTS OF ACUTE EXPOSURE**

**Product Toxicity** 

Oral: Not available.

Dermal: Not available.

Inhalation: Not available.

**Component Toxicity** 

LD<sub>50</sub> dermal Component CAS No. LD<sub>50</sub> oral LC<sub>50</sub> Ethanol 64-17-5 7060 mg/kg (rat) 20000 mg/kg 20000 ppm (rat); 10H (rabbit) 12800 mg/kg Isopropyl alcohol 67-63-0 3600 mg/kg 16000 ppm (rat); 8H (mouse) (rabbit) Hydrogen 7722-84-1 376 mg/kg (rat) 4060 mg/kg (rat) 2000 mg/m<sup>3</sup> (rat); 4H peroxide Water 7732-18-5 Not available. Not available.  $> 90000 \mu l/kg (rat);$ 4H Glycerin 56-81-5 12600 mg/kg > 10000 mg/kg $> 570 \text{ mg/m}^3 \text{ (rat)}; 1H$ (rat) (rabbit)

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Target Organs: Eyes. Gastrointestinal tract. Respiratory system.



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Symptoms (including delayed and immediate effects)

**Inhalation:** Normal use is not expected to cause any adverse effects. Excessive inhalation may

cause headache, dizziness, confusion, loss of appetite and/or loss of

consciousness.

Eye: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain,

tearing, and blurred or hazy vision. Ethanol may cause painful sensitization to light, chemical conjunctivitis and corneal damage. Isopropanol may cause transient

corneal injury.

Skin: No adverse effects are expected under normal conditions of use. Handling of large

amounts may cause skin dryness and/or irritation.

**Ingestion:** May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain,

stomach upset, nausea, vomiting and diarrhea.

Skin Sensitization: Not available.

Respiratory Sensitization: Not available.

Medical Conditions Not available.

Aggravated By Exposure:

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Blood.

Cardiovascular system. Liver. Kidneys. Reproductive system. Central

nervous system.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation. High

vapour concentrations, generally greater than 10% by volume, may

sensitize the heart and lead to lethal cardiac arrhythmias.

Carcinogenicity: Product is not classified as a carcinogen. See Component

Carcinogenicity table below for information on individual components.

Animal studies with Ethanol have reported the development of

tumours.

**Component Carcinogenicity** 

Component ACGIH IARC NTP OSHA Prop 65 Not listed. OSHA Carcinogen. Not listed. Ethanol А3 Group 1 Isopropyl alcohol A4 Group 3 Not listed. Not listed. Not listed. Hydrogen peroxide А3 Group 3 Not listed. Not listed. Not listed.

Mutagenicity: Laboratory experiments with Ethanol have resulted in mutagenic

effects.

**Reproductive Effects:** Ethanol may cause reproductive effects.

**Developmental Effects** 

Teratogenicity: Not available.

Embryotoxicity: Ethanol has been shown to produce fetotoxicity in the embryo or fetus

of laboratory animals if swallowed. Prenatal exposure to ethanol by

ingestion is associated with a distinct pattern of congenital

malformations that have collectively been termed the "fetal alcohol

syndrome".



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Toxicologically Synergistic Materials: Not available.

**Section 12: ECOLOGICAL INFORMATION** 

Ecotoxicity: Not available.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Other Adverse Effects: Not available.

**Section 13: DISPOSAL CONSIDERATIONS** 

**Disposal Instructions:** Disposal should be in accordance with applicable regional, national

and local laws and regulations. Local regulations may be more

stringent than regional or national requirements.

**Section 14: TRANSPORT INFORMATION** 

**Canada Transportation of Dangerous Goods (TDG)** 

Proper Shipping Name: UN1987, ALCOHOLS, N.O.S., 3, PG II

Class: 3

UN Number: UN1987

Packing Group: ||

Label Code:

ICAO/IATA

Proper Shipping Name: UN1987, ALCOHOLS, N.O.S., 3, PG II

Class: 3

UN Number: UN1987

Packing Group: ||

Label Code:

3

**IMDG** 

Proper Shipping Name: UN1987, ALCOHOLS, N.O.S., 3, PG II

Class: 3

UN Number: UN1987

Packing Group:

Label Code:



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#### Section 15: REGULATORY INFORMATION

## **Chemical Inventories**

# Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

# **Section 16: OTHER INFORMATION**

# Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

Date of Preparation of SDS: March 17, 2020

Version: 1.0

GHS SDS Prepared by: Deerfoot Consulting Inc.

Phone: (403) 720-3700