

# SAFETY DATA SHEET

Issuing Date 01-Apr-2020

Revision Date 08-Apr-2020

Revision Number 2

## 1. Identification

### Product identifier

Product Name CleanX Hand Sanitizer Gel Formula (Ethanol-based)

### Other means of identification

UN/ID no UN1170

Other information The hand sanitizer is manufactured using only the World Health Organization (WHO) recommended formulation with no deviations in ingredients or percentages

The compounder does not add other active or inactive ingredients. Different or additional ingredients may impact the quality and potency of the product

This is a personal care product. This SDS contains useful information for the safe handling and proper use of the product for industrial workplace conditions as well as unintended exposures as might occur with large spills. Consumers: Refer to the package insert or product label for appropriate consumer-specific information about this product when used according to manufacturer's directions

### Recommended use of the chemical and restrictions on use

Recommended use Hand sanitizer

Restrictions on use No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Expedition Retail Inc.  
44 Frid St.,  
Hamilton, ON L8P4M3

### Emergency telephone number

Emergency Telephone 9059667351

## 2. Hazard(s) identification

### Classification

Serious eye damage/eye irritation	Category 2A
Flammable liquids	Category 2

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**Label elements**

**Danger**

**Hazard statements**

**Causes serious eye irritation**  
**Highly flammable liquid and vapor**



**Precautionary Statements - Prevention**

**Wash face, hands and any exposed skin thoroughly after handling**  
**Wear protective gloves/protective clothing/eye protection/face protection**  
**Ground and bond container and receiving equipment**  
**Use non-sparking tools**  
**Take action to prevent static discharges**  
**Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking**  
**Keep container tightly closed**  
**Use explosion-proof electrical/ ventilating/ lighting/ equipment**

**Precautionary Statements - Response**

**Eyes**

**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing**  
**If eye irritation persists: Get medical advice/attention**

**Skin**

**IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]**

**Fire**

**In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to extinguish**

**Precautionary Statements - Storage**

**Store in a well-ventilated place. Keep cool**

**Precautionary Statements - Disposal**

**Dispose of contents/container to an approved waste disposal plant**

**Other information**

**May be harmful if inhaled**  
**Causes mild skin irritation**  
**May cause drowsiness or dizziness**

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### **3. Composition/information on ingredients**

**Substance**

**Not applicable.**

## Mixture

Chemical name	CAS No	%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Ethanol	64-17-5	65-70	-	
Water	7732-18-5	18.425	-	
Glycerol	56-81-5	1.45	-	
Hydrogen peroxide	7722-84-1	0.125	-	
Carbomer-940	9003-01-04	<1	-	
Triethanolamine	102-71-6	<1	-	

## 4. First-aid measures

### Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	None under normal use conditions. If skin irritation occurs: Get medical advice/attention.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

### Most important symptoms and effects, both acute and delayed

Symptoms	May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.
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### Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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## 5. Fire-fighting measures

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
Unsuitable extinguishing media	None known based on information supplied.
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Yes.

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

Methods for containment

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. Handling and storage

### Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

## 8. Exposure controls/personal protection

### Control parameters

Exposure Limits

Chemical name	Alberta	British Columbia	Ontario	Quebec
Ethanol 64-17-5	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	STEL: 1000 ppm	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>

Glycerol 56-81-5	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>
Hydrogen peroxide 7722-84-1	TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup>	TWA: 1 ppm	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup>

#### Appropriate engineering controls

Engineering controls                      Showers  
   Eyewash stations  
   Ventilation systems.

#### Individual protection measures, such as personal protective equipment

Eye/face protection                      Tight sealing safety goggles.

Hand protection                            Wear suitable gloves.

Skin and body protection                Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.  
   Antistatic boots.

Respiratory protection                    No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

## **9. Physical and chemical properties**

### Information on basic physical and chemical properties

Appearance  
    Physical state                      Liquid  
    Color                                  Colorless  
Odor                                        Alcohol  
Odor threshold                          No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	78.3 °C / 172.9 °F	
Flash point	17.5 °C / 63.5 °F	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

#### Other information

Explosive properties	No information available.
Oxidizing properties	No information available.
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

### 10. Stability and reactivity

Reactivity	None under normal use conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

### 11. Toxicological information

#### Information on likely routes of exposure

##### Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May be harmful if inhaled. May cause drowsiness or dizziness.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. Causes mild skin irritation. Prolonged contact may cause redness and irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.
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#### Acute toxicity

##### Numerical measures of toxicity

##### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol 64-17-5	= 7060 mg/kg ( Rat )	-	= 124.7 mg/L ( Rat ) 4 h
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-

Glycerol 56-81-5	= 12600 mg/kg ( Rat )	> 10 g/kg ( Rabbit )	> 570 mg/m <sup>3</sup> ( Rat ) 1 h
Hydrogen peroxide 7722-84-1	= 1518 mg/kg ( Rat )	= 9200 mg/kg ( Rabbit )	= 2000 mg/m <sup>3</sup> ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	A3	Group 1	Known	X
Hydrogen peroxide 7722-84-1	A3	Group 3	-	-

**Legend**

ACGIH (American Conference of Governmental Industrial Hygienists)  
A3 - Animal Carcinogen  
IARC (International Agency for Research on Cancer)  
Group 1 - Carcinogenic to Humans  
Group 3 - Not Classifiable as to Carcinogenicity in Humans  
NTP (National Toxicology Program)  
Known - Known Carcinogen  
OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
X - Present

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target organ effects	Eyes, Skin, Respiratory system.
Aspiration hazard	No information available.

## 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethanol 64-17-5	-	LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas)	-	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)

Glycerol 56-81-5	-	LC50: 51 - 57mL/L (96h, <i>Oncorhynchus mykiss</i> )	-	-
Hydrogen peroxide 7722-84-1	-	LC50: 18 - 56mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: =16.4mg/L (96h, <i>Pimephales promelas</i> ) LC50: 10.0 - 32.0mg/L (96h, <i>Oncorhynchus mykiss</i> )	-	EC50: 18 - 32mg/L (48h, <i>Daphnia magna</i> )

Persistence and degradability No information available.

Bioaccumulation

#### Component Information

Chemical name	Partition coefficient
Ethanol 64-17-5	-0.32
Glycerol 56-81-5	-1.76

Mobility in soil No information available

Other adverse effects No information available.

### 13. Disposal considerations

#### Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

### 14. Transport information

**Note:** While this product is a hazardous material, it may be shipped in a limited quantity that presents a limited hazard during transportation, due to its form, quantity, and packaging. The information listed below is for shipping bulk material.

Transport Canada has authorized relief for shipping hand sanitizer by road, rail, and vessel within Canada by issuing a temporary certificate (TU 0752) available at <https://www.tc.gc.ca/media/documents/tdg-eng/0752-eng-TransportationofDangerousGoodsDirectorateTransportCanada.pdf> with additional guidance at <https://www.tc.gc.ca/eng/tdg/temporary-certificates.html>.

#### TDG

UN/ID no	UN1170
Proper shipping name	ETHANOL SOLUTION
Hazard class	3
Packing group	II
Special Provisions	150
Description	UN1170, ETHANOL SOLUTION, 3, II



#### IATA

UN number	UN1170
UN proper shipping name	Ethanol solution
Transport hazard class(es)	3
Packing group	II
ERG Code	3L
Special Provisions	A180, A3, A58
Description	UN1170, Ethanol solution, 3, II

#### IMDG

UN number	UN1170
UN proper shipping name	ETHANOL SOLUTION
Transport hazard class(es)	3
Packing group	II
EmS-No	F-E, S-D
Special Provisions	144
Description	UN1170, ETHANOL SOLUTION, 3, II, (17.5°C C.C.)

### 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

#### International Inventories

TSCA	Contact supplier for inventory compliance status.
DSL/NDL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Contact supplier for inventory compliance status.

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

### 16. Other information

<u>NFPA</u>	Health hazards	2	Flammability	3	Instability	0	Physical and chemical properties -
<u>HMIS</u>	Health hazards	2	Flammability	3	Physical hazards	0	Personal protection X

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**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the  
SDS U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and  
Rodenticide Act U.S. Environmental Protection Agency High Production Volume  
Chemicals Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety  
Publications Organization for Economic Co-operation and Development High Production Volume  
Chemicals Program Organization for Economic Co-operation and Development Screening  
Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

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**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**