

# SAFETY DATA SHEET

Issuing Date 21-Jul-2017

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Revision Number 2

Canada / English



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## 1. IDENTIFICATION

### Product identifier

Product Name HealthCare Plus Alcohol Swabs

### Other means of identification

Product Code(s) 1395917

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

Recommended Use For antiseptic skin cleansing prior to injection

Restrictions on use No information available

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

Initial supplier identifier Canadian Custom Packaging Company

Address 333 Rimrock Rd  
Toronto  
Ontario  
M3J 3J9  
Canada

Telephone Phone:416-638-1111

E-mail ccp@cdncustompackaging.com

### Emergency telephone number

Company Emergency Phone Number 8669234912

## 2. HAZARDS IDENTIFICATION

### Classification

Serious eye damage/eye irritation

Category 2A



Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

### **GHS Label elements, including precautionary statements**

#### **Danger**

#### **Hazard statements**

Causes serious eye irritation  
 May cause drowsiness or dizziness  
 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  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 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  
 Keep cool

#### **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]

##### **Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Call a POISON CENTER or doctor if you feel unwell

##### **Fire**

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed  
 Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other information

May be harmful if swallowed

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity  
 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable.

### Mixture

Chemical name	CAS-No	Percent	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Isopropyl alcohol	67-63-0	63.39	-	-

## 4. FIRST AID MEASURES

### First aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

**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** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. 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** Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.
<b>Unsuitable extinguishing media</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Specific hazards arising from the chemical</b>	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.
<b>Hazardous Combustion Products</b>	Carbon oxides.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	Yes.
<b>Special protective equipment for fire-fighters</b>	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**

<b>Personal precautions</b>	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.
<b>Other Information</b>	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

<b>Methods for containment</b>	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.
<b>Methods for cleaning up</b>	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. In case of insufficient ventilation, wear suitable respiratory equipment.

### 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 TWAEV	Quebec
Isopropyl alcohol 67-63-0	TWA: 200 ppm TWA: 492 mg/m <sup>3</sup> STEL: 400 ppm STEL: 984 mg/m <sup>3</sup>	TWA: 200 ppm STEL: 400 ppm	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 985 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1230 mg/m <sup>3</sup>

#### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### 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. Impervious 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.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Physical state</b>	Pre-Moistened Towelette (free liquids)
<b>Appearance</b>	Swab has a white wet wipe saturated with Isopropyl Alcohol
<b>Odor</b>	Alcohol
<b>Color</b>	Swab has a white wet wipe saturated with Isopropyl Alcohol
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	UNKNOWN		
Melting / freezing point	No data available	None known	
Boiling point / boiling range	83°C		
Flash Point	12°C	Tag Closed Cup ASTM D56	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air		None known	
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Relative density	0.872 - 0.883	USP	
Water Solubility	Cloth not soluble		
Solubility(ies)	No data available	None known	
Partition coefficient: n-octanol/water	no data available		
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

<b>Explosive properties</b>	No information available.
<b>Oxidizing properties</b>	No information available.
<b>Softening Point</b>	No information available
<b>Molecular Weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk Density</b>	No information available
<b>Particle Size</b>	No information available
<b>Particle Size Distribution</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	None known based on information supplied.
<b>Hazardous Decomposition Products</b>	Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

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

### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

### Numerical measures of toxicity

#### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	2,950.00 mg/kg
<b>ATEmix (dermal)</b>	6,403.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	114.50 mg/L

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity  
 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl alcohol	= 1870 mg/kg ( Rat )	= 4059 mg/kg ( Rabbit )	= 72600 mg/m <sup>3</sup> ( Rat ) 4 h

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

<b>Skin corrosion/irritation</b>	May cause skin irritation.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Irritating to eyes.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.

**Carcinogenicity** No information available.

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

Chemical name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0	-	Group 3	-	X

**Legend**

**IARC (International Agency for Research on Cancer)**

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Reproductive toxicity** No information available.

**STOT - single exposure** May cause drowsiness or dizziness.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

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

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Isopropyl alcohol	96h EC50: > 1000 mg/L (Desmodesmus subspicatus) 72h EC50: > 1000 mg/L (Desmodesmus subspicatus)	96h LC50: > 1400000 µg/L (Lepomis macrochirus) 96h LC50: = 11130 mg/L (Pimephales promelas) 96h LC50: = 9640 mg/L (Pimephales promelas)	-	48h EC50: = 13299 mg/L

**Persistence and Degradability** No information available.

**Bioaccumulation**

**Component Information**

Chemical name	Log Pow
Isopropyl alcohol	0.05

**Mobility** 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

<b><u>TDG</u></b>	Not regulated
<b><u>DOT</u></b>	NOT REGULATED
<b>Proper Shipping Name</b>	NON-REGULATED
<b>Hazard Class</b>	N/A
<b><u>MEX</u></b>	Not regulated
<b><u>ICAO</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b>Proper Shipping Name</b>	NON REGULATED
<b>Hazard Class</b>	N/A
<b><u>IMDG/IMO</u></b>	Not regulated
<b>Hazard Class</b>	N/A
<b><u>RID</u></b>	Not regulated
<b><u>ADR</u></b>	Not regulated
<b><u>ADN</u></b>	Not regulated

## 15. REGULATORY INFORMATION

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

#### International Regulations

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

#### International Inventories

<b>TSCA</b>	Contact supplier for inventory compliance status.
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status.
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status.
<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.
<b>AICS</b>	Contact supplier for inventory compliance status.

#### Legend

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - 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  
**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

## 16. OTHER INFORMATION

<b>NFPA</b>	<b>Health hazards</b> 2	<b>Flammability</b> 3	<b>Instability</b> 0	<b>Physical and Chemical Properties</b> -
<b>HMIS</b>	<b>Health hazards</b> 2	<b>Flammability</b> 3	<b>Physical hazards</b> 0	<b>Personal Protection</b> X

**Prepared By** Product Stewardship  
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Latham, NY 12110  
1-800-572-6501

**Issuing Date** 21-Jul-2017

**Revision Date** 21-Jul-2017

**Revision Note** No information available

### 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**



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## SAFETY DATA SHEET

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### 01 - IDENTIFICATION

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MATERIAL NAME

**Gel-Klear**  
**Isopropyl Alcohol Hand Gel**

Use: Alcohol Hand Gel

Vendor: : KLEARGO INC.  
Address : 5555 Bois Franc  
City :St-Laurent Prov. Qc. Postal Code: H4S 1B1  
Tel: 514 335-6585 Fax:514 335-9120  
EMERGENCY PHONE NUMBER: CANUTEC at 1-888-CAN-UTEC (226-8832) or 613-996-6666

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### 02 - HAZARD IDENTIFICATION

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This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet

#### GHS (WHMIS 2015) CLASSIFICATION:

FLAMMABLE LIQUIDS - CATEGORY 2  
EYE IRRITATION - CATEGORY 2A  
SPECIFIC TARGET ORGAN TOXICITY — SINGLE EXPOSURE — CATEGORY 3

#### GHS PICTOGRAM:



**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS:

H225 Highly flammable liquid and vapour  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation.

#### PRECAUTIONARY STATEMENTS (PREVENTION):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed  
P235 Keep cool.  
P240 Ground and bond container and receiving equipment.

P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash exposed skin thoroughly after handling.
P261	Avoid breathing mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.

**PRECAUTIONARY STATEMENTS (RESPONSE):**

P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/ attention.
P312	Call a doctor/ POISON CONTROL if you feel unwell.

**PRECAUTIONARY STATEMENTS (STORAGE AND DISPOSAL):**

P403+P235+P233	Store in a well-ventilated place. Keep cool. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with municipal/ provincial/federal regulations.

**03 - COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient	Conc.	CAS#	LD50 (species/route)	LC50 (species/route)
Isopropyl alcohol	70%vol.	67-63-0	>4720mg/kg (orl-rat)	12000 ppm/8h (rat)

All other ingredients do not constitute a hazard under GHS regulations.

**04 - FIRST AID MEASURES**

SKIN:	If irritation occurs, wash with plenty of water, removing contaminated clothing. If irritation persists, seek medical attention.
EYES:	Rinse with water for 20 minutes, lifting upper and lower lids to ensure thorough washing. If irritation persists, seek medical attention.
INGESTION:	If patient is conscious, DO NOT induce vomiting, give lots of water to dilute chemical. If patient is unconscious, do not induce vomiting or give anything by mouth. Take the person to a comfortable place and position, keep person warm. If spontaneous vomiting occurs, have patient lean forward or turn patient to the side to avoid aspiration into lungs. GET IMMEDIATE MEDICAL ATTENTION.
INHALATION:	Remove person to fresh air. If respiratory problems occur, seek medical attention.

**05 - FIRE FIGHTING MEASURES**

Flammability: Flammable liquid.  
If yes, under what conditions?:

Means of extinction (procedure): Carbon dioxide (CO<sub>2</sub>), chemical powder, or alcohol resistant foam .  
Use water fog to cool containers.

Flash point (°C): 18 °C closed cup (70% alcohol, non-viscous)

Auto ignition temperature (°C): N/AP

Upper explosion limit (%vol): N/AV Lower explosion limit (% vol): N/AV.

**06 - ACCIDENTAL RELEASE MEASURES**

See Sect. 2 & 8 for precautions. Maintain good personal hygiene.

**For minute spills**, allow to evaporate and rinse area with water.

**For small spills, or to absorb residue**, use an inert absorbent material (paper, clay, sand) and remove to non-leaking suitable containers. Flush area with water to remove trace residue.

**Large Spills:**

Eliminate all ignition sources. Isolate hazard area and restrict access. Handling equipment must be grounded. Try to work upwind from spill. Wear appropriate breathing apparatus (if applicable). Stop leak, only if it is safe to do so. Dike and contain land spills. Contain water spills by booming. Use water fog to knock down vapors. Contain run-off and prevent from entering into waterways. For large spills remove by mechanical means and place in suitable container. Wash affected area with water.

Floors may be slippery after washing. Notify fire and environmental authorities for large spills.

**07 - HANDLING AND STORAGE**

**Handling procedures and equipment:** See Sect. 2 & 8 for hazards and precautions. Maintain good personal hygiene. Do not cut, drill, grind or weld on or near this container. Use adequate ventilation. Empty product containers may contain residue and label warnings must be adhered to even when container is empty. Never use pressure to empty drums. Air-dry contaminated clothing in a well-ventilated area before laundering.

**Storage requirements:** Store in a cool, dry, well-ventilated area away from all incompatibles. Avoid damage to containers. Keep container closed when not in use. Aluminum containers are not recommended for storage.

**08 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**GLOVES:** Household rubber or neoprene gloves are preferred when handling large quantities.

**EYES:** Safety glasses preferred when handling large quantities or when splashing may occur.

**RESPIRATORY PROTECTION:** None needed in well-ventilated areas. Where there is poor ventilation and when handling large quantities, approved NIOSH respirator mask with cartridge for organic solvent (alcohol).

**PROTECTIVE CLOTHING:** None needed. Impervious clothing recommended for handling large quantities where splashing may occur.

**ENGINEERING CONTROLS** (enclosed process, mechanical, etc.):

Adequate ventilation. Potable eye wash station.

**09 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical state and appearance: clear to hazy viscous liquid gel

Odor : Characteristic alcohol odor

pH : 5.5-6.5

Melting point/ Freezing point °C: -29 °C

Initial Boiling point and boiling range EC N/AV

Flash point EC ~18 °C

flammability in the case of solids and gases N/AV

upper and lower flammability or explosive limits N/AV

Vapor pressure: N/AV

Vapor density: N/AV

Relative density : 0.88 +/- 0.01

Evaporation rate : >water

Boiling point °C : < 100

Solubility in water: Soluble

Partition coefficient - n-octanol/water: N/AV

Auto-ignition temperature: N/AV

Decomposition temperature: N/AV

Viscosity : 1800-2400 cP

**10 - STABILITY AND REACTIVITY**

Chemical stability (Y/N): yes

If no, under what condition?: Excessive heat, sparks and flames. Freeze/thaw cycles can deteriorate gel.

Incompatibility with other substances: Strong oxidizing agents. Acids. Aluminum at high temperatures. Halogenated compounds, acid anhydrides.

Under what conditions?: On contact.

Hazardous decomposition products : Carbon oxides.

Hazardous polymerization: Will not occur.

**11 - TOXICOLOGICAL INFORMATION**

LD 50 OF MATERIAL (define animal species and route). ATE Mix >2,000 mg/Kg (rat/oral)

ATE Mix > 2,000 mg/kg (dermal/rabbit)

LC 50 OF MATERIAL (define animal species and route). ATE Mix > 20.0 mg/l (inhalation/4hr/vapor)

**Epidemiology:**

No particular data available. Compounds can be harmful in case of ingestion.

Mixture has not been tested, but does not contain any ingredients known to be classified for the following: Skin Sensitizer, Germ Cell Mutagenicity, Teratogenicity, Carcinogenicity, Reproductive Toxicity, Aspiration Hazard or Specific Target Organ Toxicity-Repeated Exposure.

Health Hazards Not Otherwise Classified: No data available. It is generally known that pregnant and lactating women should avoid prolonged or repeated exposure to most chemical solvents.

**EFFECTS OF ACUTE EXPOSURE:**

**SKIN:** May cause skin defatting on prolonged and repeated contact.

**EYES:** Ocular contact may cause severe irritation. Vapors may be irritating to eyes.

**INGESTION:** May cause abdominal pain. May also cause nausea, vomiting, faintness, drowsiness, dizziness, lack of coordination, altered gait.

INHALATION: Vapour may be irritating. Increased concentration inhalation (large quantities or prolonged period) may cause nausea, vomiting, drowsiness, dizziness. Symptoms depend on duration and level of exposure.

**EFFECTS OF CHRONIC EXPOSURE:**

INGESTION: Long term repeated oral exposure to alcohol may result in the development of progressive liver injury with fibrosis.

Medical Conditions Aggravated by Overexposure: Repeated exposure to alcohol may exacerbate liver injury produced from other causes.

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**12 - ECOLOGICAL INFORMATION**

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Biodegradable. Rapid volatilization. No other data available.

For release of large quantities in environment: May be harmful to aquatic life. Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to satisfaction of authorities.

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**13 - DISPOSAL CONSIDERATIONS**

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Do not contaminate or pollute by careless disposal practices. Return empty containers to a disposal site or to a reconditioner for proper recycling. All other waste is to be disposed of according to municipal, provincial, or federal regulations.

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**14 - TRANSPORT INFORMATION**

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TDG Class:

UN 1993, Flammable Liquids N.O.S. (Isopropyl alcohol), Class 3, PG II

Limited Quantity = 1L

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**15 - REGULATORY INFORMATION**

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**GHS (WHMIS 2015) CLASSIFICATION:**

FLAMMABLE LIQUIDS - CATEGORY 2

EYE IRRITATION - CATEGORY 2A

SPECIFIC TARGET ORGAN TOXICITY — SINGLE EXPOSURE — CATEGORY 3

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE HAZARDOUS PRODUCTS ACT AND THE SDS CONTAINS ALL THE INFORMATION REQUIRED BY THE HPR

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**16 - ADDITIONAL INFORMATION**

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Prepared by: Lorna Djandjikian, Chemist

Date : 16 April 2020

EMERGENCY NUMBERS: MON-FRI 9:00-17:00 TEL:(514) 339-7779 FAX: (514) 331-2276

ADDITIONAL NOTES AND REFERENCES:

N/AV = not available

N/AP= not applicable N/D = not determined.

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