Safety Data Sheet

Alcohol Hand Gel

1. IDENTIFICATION

Product Identifier: Alcohol Hand Gel
Canadian TDG: UN1987
Synonyms: None
Chemical Family: Alcohol
Recommended Use: Hand Sanitizer
Restrictions on Use: None

Manufacturer / Supplier:
Genesis Chemicals
602 – 13th St SE
Medicine Hat, AB
T1A 1X3

Prepared by: The Environmental, Health and Safety Department of Genesis Chemicals Ltd
Preparation Date of SDS: March 17, 2020
Telephone number of preparer: 403-528-4220

24-Hour Emergency Telephone Number (CANUTEC): (613) 996-6666

2. HAZARDS IDENTIFICATION

GHS Classification
Flammable liquid – Category 3; Eye irritation – Category 2A

Signal Word: Warning

Hazard Statements(s):
Highly flammable liquid and vapour
Causes serious eye irritation

Precautionary Statement(s):
General:
Keep out of reach of children.
Read label before use.

Prevention:
Keep away from heat, sparks, open flames or hot surfaces. - No smoking.
Keep container tightly closed.

Ground/bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting and equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

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

Storage:
Store in a well-ventilated place.
Keep cool.

Disposal:
Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards:
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration %
Ethyl Alcohol	64-17-5	>= 50 - <70
Isopropyl Alcohol	67-63-0	>= 1 - <5

Notes
If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First-aid Measures
Inhalation
Move to fresh air. If symptoms persist, call a physician.
Skin Contact
Wash with water and soap as a precaution. Get medical attention if irritation develops and persists.
Eye Contact
Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.
Ingestion
Do not induce vomiting. Rinse mouth with water. Obtain medical attention.
Most Important Symptoms and Effects, Acute and Delayed
Causes serious eye irritation.

Immediate Medical Attention and Special Treatment
Special Instructions
Not applicable.

5. FIRE-FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media
High volume water jet

Specific Hazards Arising from the Chemical
Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray. Flash back possible over considerable distance. May form explosive mixtures in air. Exposure to decomposition products may be a hazard to health.

Special Protective Equipment and Precautions for Fire-fighters
Dike and recover contaminated water for appropriate disposal.
Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn. If there is potential for skin contact with concentrated cleaner: chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary. See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures
Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Material can create slippery conditions.

Environmental Precautions
Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and Materials for Containment and Cleaning Up
Non-sparking tools should be used. Soak up with inert absorbent material. Suppress gases/vapours/mists with a water spray jet. Keep in a suitable, closed container for disposal. Clean contaminated floor and objects thoroughly while observing environmental regulation.

Other Information
Report spills to local health, safety and environmental authorities, as required.

7. HANDLING AND STORAGE

Precautions for Safe Handling
For personal protection, see section 8. Keep away from heat. Use with local exhaust ventilation. Avoid contact with eyes.

Conditions for Safe Storage
Take measures to prevent the buildup of electrostatic charge. Keep in properly labelled containers. Keep container tightly closer in a dry and well-ventilated place. Store in accordance with the particular national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Ingredients	ACGIH® TLV®	OSHA PEL	IDLH
Ethyl Alcohol	1000 ppm STEL	1000 ppm TWA 1880 mg/m$_3$ TWA	-
Isopropyl Alcohol	400 ppm STEL 200 ppm TWA	400 ppm TWA 980 mg/m$_3$ TWA 500 ppm STEL 1225 mg/m$_3$ STEL	2000 ppm

Consult local authorities for provincial or state exposure limits.

Appropriate Engineering Controls
General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists.
When handling large quantities of concentrated product: use a local exhaust ventilation and enclosure, if necessary, to control amount in the air. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

Individual Protection Measures
Eye/Face Protection
Do not get in eyes. Wear chemical safety goggles.
Skin Protection
Prevent all skin contact. Wear chemical protective clothing e.g. gloves, aprons, boots.
Suitable materials are: Barrier® (PE/PA/PE), Silver Shield/4H® (PE/EVAL/PE), Tychem® Responder, Tychem® TK.
The following materials should NOT be used: neoprene rubber, nitrile rubber, polyvinyl alcohol.
Respiratory Protection
Not normally required if product is used as directed.
Concentrated product: wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.
For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an organic vapour Cartridge, or, wear a NIOSH approved self-contained breathing apparatus (SCBA) or supplied air respirator.
Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

9. CHEMICAL AND PHYSICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Colourless liquid.
Odour	Alcohol
Odour Threshold	Not available
pH	6.0 -8.5
Melting Point/Freezing Point	No data available
Initial Boiling Point/Range	No data available
Flash Point	No data available
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not available
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Specific Gravity	Not available
Solubility	Soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	1500 – 23000 mm2/s (20°C)
Other Information	
Physical State:	Liquid

10. STABILITY AND REACTIVITY

Reactivity
Not reactive. Not sensitive to mechanical impact.

Chemical Stability
Normally stable.

Possibility of Hazardous Reactions
None expected under normal conditions of storage and use.

Conditions to Avoid
Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials
Strong oxidizers.

Hazardous Decomposition Products
No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure
Inhalation; skin contact; eye contact; ingestion.

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Ethyl Alcohol	Rat = 124.7 mg/l (4hr vapour)	Rat > 5,000 mg/kg	-
Isopropyl Alcohol	Rat = 16970 ppm/4H	Mouse = 3600 mg/kg Rat = 5045 mg/kg	Rabbit = 12800 mg/kg

Skin Corrosion/Irritation
May cause mild irritation based on information for closely related chemicals.

Serious Eye Damage/Irritation
Animal tests show serious eye irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure
Inhalation
May cause depression of the central nervous system.

Aspiration Hazard
May be drawn into the lungs (aspirated) if swallowed or vomited. Symptoms may include coughing, choking, shortness of breath, difficult or rapid breathing, and wheezing.

STOT (Specific Target Organ Toxicity) - Repeated Exposure
Following skin contact: may cause dermatitis.
May cause harmful effects on the kidneys, harmful effects on the liver.

Respiratory and/or Skin Sensitization
Not a respiratory sensitizer.
Skin sensitizer. May cause an allergic reaction (skin sensitization) based on information for closely related chemicals.

Carcinogenicity

Chemical Name	IARC	ACGIH
Isopropyl Alcohol	Group 3	A4

Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity
None known

Interactive Effects
No information was located.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Ethyl Alcohol	> 1000 mg/L LC50 (Pimephales promelas) 96 h	> 1000 mg/l EC50 (Daphnia magna) 48 h	275 mg/l EC50 (Chlorella vulgaris) 72 h
Isopropyl Alcohol	11130 mg/L LC50 (Pimephales promelas) 96 h static 9640 mg/L LC50 (Pimephales promelas) 96 h flow-through 1400000 µg/L LC50 (Lepomis macrochirus) 96 h	-	1000 mg/L EC50 (Desmodesmus subspicatus) 72 h 1000 mg/L EC50 (Desmodesmus subspicatus) 96 h

Other Information:
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. Spill areas must be cleaned and restored to original condition or to the satisfaction of authorities. May be harmful to aquatic life. Biodegrades (slow). Rapid volatilization. Not expected to bioconcentrate.

13. DISPOSAL CONSIDERATIONS

Disposal Methods
Recommended disposal methods are for the product, as sold. (Used material may contain other hazardous contaminants). The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

Burn in an approved incinerator according to federal, provincial/state, and local regulations.
Empty containers retain product residue. Follow label warnings even if container appears to be empty. The container for this product can present explosion or fire hazards, even when emptied. Do not cut, puncture, or weld on or near this container.

14. TRANSPORT INFORMATION

DOT (U.S.):
DOT Shipping Name: ALCOHOLS, N.O.S (Ethanol, Propan-2-ol)
DOT Hazardous Class 3
DOT UN Number: UN1987
DOT Packing Group: III
Note: No additional remark.
Marine Pollutant: No.

TDG (Canada):
TDG Shipping Name: ALCOHOLS, N.O.S (Ethanol, Propan-2-ol)
Hazard Class: 3
UN Number: UN1987
Packing Group: III
Note: No additional remark.
Marine Pollutant: No.

Special Precautions for User
Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

15. REGULATORY INFORMATION

Canada
WHMIS Classification
B2 FLAMMABLE LIQUIDS
D2B TOXIC MATERIALS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)
All ingredients are listed on the DSL/NDSL.

CEPA - National Pollutant Release Inventory (NPRI)
Not determined

USA
Toxic Substances Control Act (TSCA) Section 8(b)
All ingredients are listed on the TSCA Inventory.

16. OTHER INFORMATION

Additional Information: This product has been classified in accordance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and the SDS contains all the information required by the Hazardous Products Regulations (HPR).

Prepared by: The Environmental, Health and Safety Department of Genesis Chemicals Ltd

Date of Latest Revision: March 17, 2020

Key to Abbreviations: IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans. ACGIH® = American Conference of Governmental Industrial Hygienists. A4 = Not classifiable as a human carcinogen. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration. ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. A4 = Not classifiable as a human carcinogen. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. IDLH = Immediately Dangerous to Life and Health.

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All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate,

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*****END OF SDS*****