

SECTION 1. IDENTIFICATION

Product name	Hand Sanitizer Gel, 80% SD Ethanol	
Manufacturer or supplier's deta	ils	
Company name	HY-GN	
Address	930 TAHOE BLVD, STE. 802 PMB 700, INCLINE VILLAGE NV 89451	
Telephone		
Emergency telephone number	CHEMTREC 1-800-424-9300 CHEMTREC +1-703-527-3887 Outside USA & CANADA	

Recommended use of the chemical and restrictions on use

Recommended use	Hand Sanitizer
Restrictions on use	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 SOS for the consumer. While this material is not considered hazardous, this SOS 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 SOS 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.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	Category 3
Eye irritation	Category 2A
GHS label elements Hazard pictograms Signal word Hazard statements	
	Warning

H226 Flammable liquid and vapors. H319 Causes serious eye irritation.

Precautionary statements

No smoking. nt. 30 Wear eye
several uue rinsing. n. I-resistant
al plant.

Other Hazards: None known

SECTION 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (%)
Ethyl Alcohol	64-17-5	>=77% to <80%
Isopropyl Alcohol	67-63-0	>=4% to<6%

SECTION 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
lf inhaled	If inhaled, remove to fresh air. If symptoms persist, call a physician.
In case of skin contact	Wash with water and soap as a precaution. Get medical attention if irritation develops and persists.
In case of eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Seek medical advice.
If swallowed	If swallowed, DO NOT induce vomiting. Rinse mouth with water. Obtain medical attention.
Most important symptoms and effects, both acute and delayed	Causes serious eye irritation.
Protection of first aiders	First Aid responders should pay attention to self-protection and use the recommended protective clothing

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	High volume water jet
Specific hazards during firefighting	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. Carbon oxides
Hazardous combustion products	Carbon oxides
Specific extinguishing methods	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.
Further information	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENT AL 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 (knock down) gases/ vapours/ mists with a water spray jet. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	For personal protection see section 8.
	Keep away from heat and flame.
	Use with local exhaust ventilation.
	Avoid contact with eyes.

Take measures to prevent the buildup of electrostatic charge.Keep in properly labelled containers.Keep containers tightly closed in a dry, cool and well-ventilated place.Store in accordance with the particular national regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethyl Alcohol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Isopropyl Alcohol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Isopropyl Alcohol	67-63-0	Acetone	Urine	End of shiftat end of work week	40 mg/l	ACGIH BEi

Personal protective equipment

Respiratory protection	No personal respiratory protective equipment normally required.
Hand protection Remarks	No special protective equipment required.
Eye protection	Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	No special measures necessary provided product is used correctly.
Protective measures	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. Ensure that eye flushing systems and safety showers are located close to the working place.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Color	clear, greenish-blue
Odour	alcohol-like
Odour Threshold	No data available
рН	3.8 - 5.2, (20 °C)
Melting point/freezing point	No data available
Initial boiling point and boiling range	75.00 · C
Flash point	26.50 °C
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Flammability (liquids)	
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	No data available
Relative vapour density	No data available
Density	0.8742 g/cm3
Solubility(ies) Water solubility	soluble
Partition coefficient: n- octanol/water	Not applicable
Auto-ignition temperature	No data available
Thermal decomposition	The substance or mixture is not classified self-reactive.
Viscosity Viscosity, kinematic	80 - 600 mm2/s (20 °C)
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	Not classified as a reactivity hazard.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames and sparks.

Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Eye contact Skin contact

Acute toxicity

Not classified based on available information.

Components:

Ethyl Alcohol:	
Acute oral toxicity	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	LC50 (Rat): 124.7 mg/l Exposure time: 4 h Test atmosphere: vapour
Isopropyl Alcohol: Acute oral toxicity	LD50 (Rat): >5,000 mg/kg
Acute inhalation toxicity	LC50 (Rat): 72.6 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	LD50 (Rat): > 5,000 mg/kg

Skin corrosion/ irritation

Not classified based on available information.

Components:

Ethyl Alcohol: Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Isopropyl Alcohol:

Species: Rabbit Result: No skin irritation

Serious eye damage/ eye irritation

Causes serious eye irritation.

Components:

Ethyl Alcohol: Species: Rabbit Result: Irritation to eyes, reversing within 21 days Method: OECD Test Guideline 405

Isopropyl Alcohol:

Species: Rabbit Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

Components:

Ethyl Alcohol: Test Type: Local lymph node assay (LLNA) Exposure routes: Skin contact Species: Mouse Result: negative

Isopropyl Alcohol:

Test Type: Buehler Test Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Test Type: In vitro mammalian cell gene mutation test Result: negative
Test Type: Rodent dominant lethal test (germ cell) (in vivo) Test species: Mouse Application Route: Ingestion Result: negative
Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Test species: Mouse Application Route: Intraperitoneal injection Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Isopropyl Alcohol:

Species: Rat Application Route: inhalation (vapour) Exposure time: 104 weeks Method: OECD Test Guideline 451 Result: negative

NTP

equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or

Reproductive toxicity

Not classified based on available information.

Components:

Ethyl Alcohol: Effects on fertility	Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative
Isopropyl Alcohol: Effects on fertility	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effects on fetal development	Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative

STOT • single exposure

Not classified based on available information.

Components:

Isopropyl Alcohol: Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Ethyl Alcohol: Species: Rat NOAEL: 2,400 mg/kg Application Route: Ingestion Exposure time: 2 y

Isopropyl Alcohol:

Species: Rat NOAEL: 5000 ppm Application Route: inhalation (vapour) Exposure time: 104 w Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ethyl Alcohol: Toxicity to fish

Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d
Toxicity to bacteria	EC50 (Photobacterium phosphoreum):32.1 mg/l Exposure time: 0.25 h
Isopropyl Alcohol: Toxicity to fish	LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h
Toxicity to bacteria	EC50 (Pseudomonas putida): > 1,050 mg/l Exposure time: 16 h
Persistence and degradability	
Components:	
Ethyl Alcohol:	
Biodegradability	Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d
Isopropyl Alcohol: Biodegradability	Result: rapidly degradable
Bio accumulative potential	
Components:	
Ethyl Alcohol:	
Partition coefficient: n- octanol/water	log Pow: -0.35
Isopropyl Alcohol:	
Partition coefficient: n- octanol/water	log Pow: 0.05
Mobility in soil No data available	
Other adverse effects	
No data available	
Product:	
Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + 8).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulation	
IATA-DGR UN/ID No. Proper shipping name Class Packing group Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	UN 1987 Alcohols, n.o.s. (Ethanol, Propan-2-ol) 3 III 366 355
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant National Regulations	UN 1987 ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol) 3 III 3 F-E, S-D no
49 CFR UN/ID/NA number Proper shipping name Class Packing group ERG Code Marine pollutant	UN 1987 Alcohols, n.o.s. 3 III 127 no

SECTION 15. REGULATORY INFORMATION

EPCRA • Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	Fire Hazard Acute Health Hazard
SARA302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313:

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicalslisted under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Ethyl Alcohol	64-17-5
Isopropyl Alcohol	67 - 63-0

 This product does not contain any voe exemptions listed under the U.S. Clean Air Act Section

 Vers 1.1
 Revision Date: 03/20/2020

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know		
	Ethyl Alcohol	64-17-5
	Isopropyl Alcoho	67-63-0
Pennsylvania I	Right To Know	
	Ethyl Alcohol	64-17-5
	Water (Aqua)	7732-18-5
	Isopropy Alcoho	l 67-63-0
New Jersey Rig		
	Ethyl Alcohol	64-17-5
	Water (Aqua)	7732-18-5 67-63-0
	Isopropyl Alcoho	1 07 -0 3-0
California Prop	65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
The components	s of this product	are reported in the following inventories:
TSCA		On TSCA Inventory
AICS		On the inventory, or in compliance with the inventory
DSL		On the inventory, or in compliance with the inventory
ENCS		On the inventory, or in compliance with the inventory
ISHL		On the inventory, or in compliance with the inventory
KECI		On the inventory, or in compliance with the inventory
PICCS		On the inventory, or in compliance with the inventory
IECSC		On the inventory, or in compliance with the inventory
NZIoC		On the inventory, or in compliance with the inventory
vontorios		

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand}, PICCS (Philippines), TCSI (Taiwan), TSCA (USA)



The information presented above is believed to be accurate and represents the best information currently available to HY-GN.

HY-GN makes no warranty, express or implied, with respect to such information, and assumes no liability resulting from its use. The user is responsible for the proper and safe use, handling, storage and disposal of the product. and assumes liability for any loss, injury, damage or expense arising from any failure to do so. The data in this sheet is based on information and experience available at the time of writing.