

Version 1.1 SDS Number: 40000000414 Revision Date: 09/05/2018

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	: PURELL® ADVANCED Hand Sanitizer Foam	
Manufacturer or supplier's Company name of supplier	etails : GOJO Industries, Inc.	
Address	: One GOJO Plaza, Suite 500 Akron, Ohio 44311	
Telephone	: 1 (330) 255-6000	
Emergency telephone number	: CHEMTREC 1-800-424-9300 CHEMTREC +1-703-527-3887: Outside USA & CANAE	DA

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 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.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	: Category 3
Eye irritation	: Category 2A
GHS label elements Hazard pictograms	
Signal word	: Warning
Hazard statements	: H226 Flammable liquid and vapour.



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	H319 Causes serious eye irritation.		
Precautionary statements	No smoking. P233 Keep container tightly cle P240 Ground/bond container a P241 Use explosion-proof elec equipment. P242 Use only non-sparking to P243 Take precautionary mea P280 Wear eye protection/ fac Response:	and receiving equipment. ctrical/ ventilating/ lighting/ pols. sures against static discharge. e protection. ES: Rinse cautiously with water contact lenses, if present and ersists: Get medical advice/ se dry sand, dry chemical or notion. entilated place. Keep cool.	

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

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

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.
If 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.



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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 a and use the recommended protec	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO2)
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 Silicon oxides
Hazardous combustion products	:	Carbon oxides Silicon oxides
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. 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. 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.



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	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. Use with local exhaust ventilation. Avoid contact with eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.
Conditions for safe storage	 Take measures to prevent the build up of electrostatic charge. Keep in properly labelled containers. Keep containers tightly closed in a cool, 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	LMPE-PPT	1,000 ppm 1,900 mg/m3	MX OEL
		VLE-CT	1,000 ppm	NOM-010- STPS-2014
		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	LMPE-PPT	400 ppm 980 mg/m3	MX OEL
		LMPE-CT	500 ppm 1,225 mg/m3	MX OEL
		VLE-PPT	200 ppm	NOM-010- STPS-2014
		VLE-CT	400 ppm	NOM-010- STPS-2014



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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	Samplin g time	Permissible concentratio n	Basis
Isopropyl Alcohol	67-63-0	Acetone	Urine	End of shift at the end of the work week	40 mg/l	MX BEI
		Acetone	Urine	End of shift at the end of the work week	40 mg/l	MX BEI
Remarks:	Correction:	Note A replac	ed with Note	B	•	
		Acetone	Urine	End of shift at end of workwee k	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 protective equipment required.	
Protective measures	 Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Ensure that eye flushing systems and safety showers are located close to the working place. 	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour

: clear, colourless, yellow



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Odour	: alcohol-like	
рН	: 6-9	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: 73 °C	
Flash point	: 26.00 °C	
Evaporation rate	: No data available	
Flammability (solid, gas)	: Not applicable	
Flammability (liquids)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapour pressure	: No data available	
Relative vapour density	: No data available	
Density	: 0.8738 g/cm3	
Solubility(ies) Water solubility	: soluble	
Partition coefficient: n- octanol/water	: Not applicable	
Auto-ignition temperature	: not determined	
Thermal decomposition	: The substance or mixture is not	classified self-reactive.
Viscosity Viscosity, kinematic	: 10 - 20 mm2/s (20 °C)	
Explosive properties	: Not explosive	
Oxidizing properties	: The substance or mixture is not	classified as oxidizing.
Molecular weight	: Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous	: Vapours may form explosive mixture with air.



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reactions		
Conditions to avoid	: Heat, flames and sparks.	
Incompatible materials	: Strong oxidizing agents Flammable solids Water-reactive substances	
Hazardous decomposition products	: No hazardous decomposition p	products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Eye contact

Acute toxicity

Not classified based on available information.

<u>Components:</u> 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:



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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 sensitisation

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

Genotoxicity in vitro	:	Test Type: In vitro mammalian cell gene mutation test Result: negative
Genotoxicity in vivo	:	Test Type: Rodent dominant lethal test (germ cell) (in vivo) Test species: Mouse Application Route: Ingestion Result: negative
Isopropyl Alcohol:		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	:	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:



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Species: Rat Application Route: inhalation (Exposure time: 104 weeks Method: OECD Test Guideline Result: negative		
Reproductive toxicity Not classified based on availa	ble information.	
<u>Components:</u> Ethyl Alcohol: Effects on fertility	: Test Type: Two-generation reprod Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative	
Isopropyl Alcohol: Effects on fertility	: Test Type: Two-generation reprod Species: Rat Application Route: Ingestion Result: negative	uction toxicity study
Effects on foetal development	: Test Type: Embryo-foetal develop Species: Rat Application Route: Ingestion Result: negative	ment
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

Isopropyl Alcohol: Biodegradability



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Aspiration toxicity	
Not classified based on ava	ilable information.
Experience with human e	kposure
Product:	
Eye contact: S	ymptoms: Redness, tearing, burning or stinging of eye
CTION 12. ECOLOGICAL IN	FORMATION
Ecotoxicity	
Components:	
Ethyl Alcohol:	
Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg Exposure time: 96 h
Toxicity to daphnia and othe aquatic invertebrates	er : 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 othe aquatic invertebrates (Chronic toxicity)	er : 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 Exposure time: 96 h
Toxicity to daphnia and othe aquatic invertebrates	er : 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 degradal	bility
Components:	
Ethyl Alcohol:	
Biodegradability	: Result: Readily biodegradable. Biodegradation: 84 %

: Result: rapidly degradable



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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	

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

IATA-DGR		
UN/ID No.	:	UN 1987
Proper shipping name	:	Alcohols, n.o.s.
		(Ethanol, Propan-2-ol)
Class	:	3
Packing group	:	111
Packing instruction (cargo	:	366
aircraft)		
Packing instruction	:	355
(passenger aircraft)		
IMDG-Code		
UN number	:	UN 1987
Proper shipping name	:	ALCOHOLS, N.O.S.
		(Ethanol, Propan-2-ol)
Class	:	3
Packing group	:	III
Labels	-	3
EmS Code	:	F-E, S-D
Marine pollutant	:	no
National Regulations		



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NOM-002-SCT		
UN number	: UN 1987	
Proper shipping name	: ALCOHOLS, N.O.S.	
	(Ethanol, Propan-2-ol)	
Class	: 3	
Packing group	: 111	
Labels	: 3	
Special precautions fo	r user	
Not applicable		

SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

The components of this product are reported in the following inventories:

TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL.
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: 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

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)

SECTION 16. OTHER INFORMATION

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.