

Version 1.0	SDS Nu	mber: 400000005380	Revision Date: 05/02/2017	
SECTION 1. IDENTIFICATION				
Product name	: PURI	ELL® Healthcare Advance	ed Hand Sanitizer Foam	
Manufacturer or supplier's	etails			
Company name of supplier	: GOJO	O Industries, Inc.		
Address		GOJO Plaza, Suite 500 n, Ohio 44311		
Telephone	: 1 (33	0) 255-6000		
Emergency telephone number	: 1-800	0-424-9300 CHEMTREC		
Recommended use of the c	emical a	nd restrictions on use		
Recommended use	: Hand	Sanitizer		
Restrictions on use	consu fores speci exem While conta prope as we spills emple intend	umers and other users und eeable use. Cosmetics an fically defined by regulatic opt from the requirement o this material is not consid- ins valuable information c or use of the product for in	ons around the world, are f an SDS for the consumer. dered hazardous, this SDS ritical to the safe handling and dustrial workplace conditions ded exposures such as large ined and available for his product. For specific refer to the information	

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.



Concentration (%) >= 50 - < 70

>= 1 - < 5

PURELL® Healthcare Advanced Hand Sanitizer Foam

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	H319 Causes serious eye irritation.			
Precautionary statements	No smoking. P233 Keep container tightly cl 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: P305 + P351 + P338 IF IN EY	and receiving equipment. ctrical/ ventilating/ lighting/ ools. asures against static discharge. ce protection. 'ES: Rinse cautiously with water contact lenses, if present and easy ersists: Get medical advice/ Jse dry sand, dry chemical or aguish. rentilated place. Keep cool.		

Other hazards

None known.

Isopropyl Alcohol

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	
Chemical name	CAS-No.
Ethyl Alcohol	64-17-5

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.

67-63-0



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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 and use the recommended prote	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	r
Unsuitable extinguishing media	High volume water jet	
Specific hazards during firefighting	Do not use a solid water stream as it may scatter and sp 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 loca circumstances and the surrounding environment. Use water spray to cool unopened containers.	ıl
Further information	Collect contaminated fire extinguishing water separately must not be discharged into drains. Fire residues and contaminated fire extinguishing water be disposed of in accordance with local regulations.	
Special protective equipment for firefighters	In the event of fire, wear self-contained breathing appara Use personal protective equipment.	atus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	: Use personal protective equipment.
protective equipment and	Ensure adequate ventilation.
emergency procedures	Remove all sources of ignition.
	Evacuate personnel to safe areas.
	Keep people away from and upwind of spill/leak.
	Material can create slippery conditions.



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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 spillage cannot be contained. 	
Methods and materials for containment and cleaning up	 Non-sparking tools should be us Soak up with inert absorbent ma Suppress (knock down) gases/v spray jet. Keep in suitable, closed contained Clean contaminated floors and c observing environmental regulat 	aterial. apours/mists with a water ers for disposal. objects thoroughly while

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.
Conditions for safe storage	 Take measures to prevent the build up of electrostatic charge. Keep in properly labelled containers. Keep container tightly closed in a dry 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	5		Permissible concentratio n	Basis
Isopropyl Alcohol	67-63-0	Acetone	Urine	End of	40 mg/l	ACGIH



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		shift at BEI end of workwee k
Personal protective equi	pment	
Respiratory protection	: No personal respiratory prote required.	ective equipment normally
Hand protection Remarks	: No special protective equipm	nent required.
Eye protection	: Wear face-shield and protect problems.	tive suit for abnormal processing
Skin and body protection	: No special measures necess correctly.	ary provided product is used
Protective measures	: Choose body protection in re concentration and amount of the specific work-place. Ensure that eye flushing syst located close to the working	dangerous substances, and to tems and safety showers are
Hygiene measures	: Handle in accordance with go practice. Avoid contact with eyes.	ood industrial hygiene and safety

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: clear, colourless, yellow
Odour	: like fruit
Odour Threshold	: No data available
рН	: 6 - 9, (20 °C)
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: 74.00 °C
Flash point	: 27.00 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: No data available
Lower explosion limit	: No data available



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Vapour pressure	: No data available	
Relative vapour density	: No data available	
Density	: 0.8730 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 no	t classified self-reactive.
Viscosity Viscosity, kinematic	: 10 - 20 mm2/s (20 °C)	
Explosive properties	: Not explosive	
Oxidizing properties	: The substance or mixture is no	t 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.
Incompatible materials	: Strong oxidizing agents Flammable solids Self-reactive substances Water-reactive substances
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:



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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 ava	ilable information.	
Components:		
Result: No skin irritation Isopropyl Alcohol: Species: Rabbit Result: No skin irritation		
Serious eye damage/eye i	rritation	
Causes serious eye irritation		
Components: Ethyl Alcohol: Species: Rabbit Result: Irritation to eyes, rev Method: OECD Test Guidel		
Isopropyl Alcohol: Species: Rabbit Result: Irritation to eyes, rev	versing within 21 days	
	isation ified based on available information. ot classified based on available inform	ation.
Components: Ethyl Alcohol: Test Type: Local lymph nod Exposure routes: Skin conta Species: Mouse Result: negative	e assay (LLNA)	

Isopropyl Alcohol: Test Type: Buehler Test



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Exposure routes: Skin co Species: Guinea pig Method: OECD Test Guic Result: negative		
Germ cell mutagenicity Not classified based on a	vailable information	
Components:		
Ethyl Alcohol: Genotoxicity in vitro	: Test Type: In vitro mammalian Result: negative	cell gene mutation test
Genotoxicity in vivo	: Test Type: Rodent dominant le Test species: Mouse Application Route: Ingestion Result: negative	thal test (germ cell) (in vivo)
Isopropyl Alcohol:		
Genotoxicity in vitro	: Test Type: Bacterial reverse m Result: negative	utation assay (AMES)
Genotoxicity in vivo	: Test Type: Mammalian erythroo cytogenetic assay) Test species: Mouse Application Route: Intraperitone Result: negative	
Carcinogenicity		
Not classified based on a	vailable information.	
Components: Isopropyl Alcohol: Species: Rat Application Route: inhalat Exposure time: 104 week Method: OECD Test Guid Result: negative	S	
IARC	No component of this product presequal to 0.1% is identified as probuman carcinogen by IARC.	
OSHA	No component of this product presequal to 0.1% is identified as a can carcinogen by OSHA.	
NTP	No component of this product pres equal to 0.1% is identified as a kn	

Reproductive toxicity

Not classified based on available information.

by NTP.



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Components:		
Ethyl Alcohol:		
Effects on fertility	: Test Type: Two-generation repr	oduction toxicity study
	Species: Mouse	
	Application Route: Ingestion	
	Method: OECD Test Guideline	416
	Result: negative	
Isopropyl Alcohol:		
Effects on fertility	: Test Type: Two-generation repr	oduction toxicity study
	Species: Rat	
	Application Route: Ingestion	
	Result: negative	
Effects on foetal	: Test Type: Embryo-foetal devel	opment
development	Species: Rat	
	Application Route: Ingestion	
	Result: negative	
STOT - single exposure		
Not classified based on availab	ble information.	
Components:		
Isopropyl Alcohol: Assessment: May cause drows	singes or dizzinges	
STOT - repeated exposure		
Not classified based on availal	ble 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		
	e 413	
Method: OECD Test Guideline		
Method: OECD Test Guideline	ble information.	
Method: OECD Test Guideline Aspiration toxicity		

Components: Ethyl Alcohol:



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Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 1,0 Exposure time: 96 h)00 m
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 Exposure time: 72 h Method: OECD Test Guideline 201	g/l
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)): 10,00 Exposure time: 96 h	00 m
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 degradabil	ity	
<u>Components:</u> Ethyl Alcohol: Biodegradability	: Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d	
Ethyl Alcohol: Biodegradability	Biodegradation: 84 %	
Ethyl Alcohol: Biodegradability Isopropyl Alcohol:	Biodegradation: 84 % Exposure time: 20 d	
Ethyl Alcohol: Biodegradability Isopropyl Alcohol: Biodegradability	Biodegradation: 84 % Exposure time: 20 d	
Ethyl Alcohol: Biodegradability Isopropyl Alcohol: Biodegradability Bioaccumulative potential	Biodegradation: 84 % Exposure time: 20 d	
Ethyl Alcohol: Biodegradability Isopropyl Alcohol: Biodegradability Bioaccumulative potential <u>Components:</u> Ethyl Alcohol: Partition coefficient: n-	Biodegradation: 84 % Exposure time: 20 d : Result: rapidly degradable	
Ethyl Alcohol: Biodegradability Isopropyl Alcohol: Biodegradability Bioaccumulative potential Components: Ethyl Alcohol: Partition coefficient: n- octanol/water Isopropyl Alcohol: Partition coefficient: n-	 Biodegradation: 84 % Exposure time: 20 d Result: rapidly degradable log Pow: -0.35 	
Ethyl Alcohol: Biodegradability Isopropyl Alcohol: Biodegradability Bioaccumulative potential Components: Ethyl Alcohol: Partition coefficient: n- octanol/water Isopropyl Alcohol: Partition coefficient: n- octanol/water	 Biodegradation: 84 % Exposure time: 20 d Result: rapidly degradable log Pow: -0.35 	



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Product:		
Regulation	40 CFR Protection of Environm Stratospheric Ozone - CAA Sec	
Remarks	This product neither contains, r Class I or Class II ODS as defir Section 602 (40 CFR 82, Subpt	ned by the U.S. Clean Air Act

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.	
••••	: UN 1987
Proper shipping name	: Alcohols, n.o.s. (Ethanol, Propan-2-ol)
Class	: 3
Packing group	: 111
Packing instruction (cargo aircraft)	: 366
Packing instruction (passenger aircraft)	: 355
IMDG-Code	
UN number	: UN 1987
Proper shipping name	: ALCOHOLS, N.O.S.
1 11 5	(Ethanol, Propan-2-ol)
Class	: 3
Packing group	: 111
Labels	: 3
EmS Code	: F-E, S-D
Marine pollutant	: no
National Regulations	
49 CFR	
UN/ID/NA number	: UN 1987
Proper shipping name	: Alcohols, n.o.s. (Ethanol, Propan-2-ol)
Class	: 3
Packing group	: 111
ERG Code	: 127
Marine pollutant	: no



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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		
SARA 302	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.		eporting
SARA 313	:	: The following components are subject to reporting leve established by SARA Title III, Section 313:		ng levels
		Isopropyl Alcohol	67-63-0	3.4103 %

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 chemicals listed 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	65.2821 %
Isopropyl Alcohol	67-63-0	3.4103 %

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

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	50 - 70 %		
Isopropyl Alcohol	67-63-0	1 - 5 %		
Pennsylvania Right To Know				
Ethyl Alcohol	64-17-5	50 - 70 %		
Water (Aqua)	7732-18-5	20 - 30 %		
Isopropyl Alcohol	67-63-0	1 - 5 %		
New Jersey Right To Know				
Ethyl Alcohol	64-17-5	50 - 70 %		
Water (Aqua)	7732-18-5	20 - 30 %		
Isopropyl Alcohol	67-63-0	1 - 5 %		
PEG-12 Dimethicone	68937-54-2	1 - 5 %		

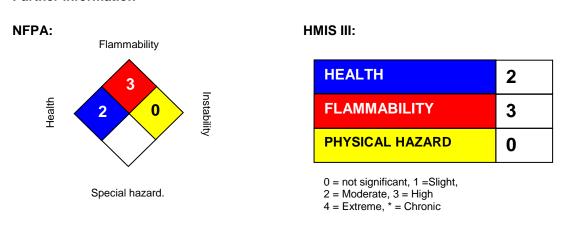


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California Prop 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.			
The components of this product are reported in the following inventories:				
TSCA	: On TSCA Inventory			
AICS	: On the inventory, or in compliar	nce with the inventory		
DSL	: On the inventory, or in compliar	nce with the inventory		
ENCS	: On the inventory, or in compliar	nce with the inventory		
ISHL	: On the inventory, or in compliar	nce with the inventory		
KECI	: On the inventory, or in compliar	nce with the inventory		
PICCS	: On the inventory, or in compliar	nce with the inventory		
IECSC	: On the inventory, or in compliar	nce with the inventory		
NZIoC	: On the inventory, or in compliar	nce 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



Further information

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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



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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.