

Version 1.1	Revision Date: 02/10/2015	MSDS Number:Date of last issue: 12/12/201436779-00002Date of first issue: 12/12/2014			
SECTION	1. IDENTIFICATION				
Produ	uct name	: PURELL® Advanced Hand Sanitizer Gel			
Manı	facturer or supplier's	details			
	pany name of supplier	: GOJO Industries, Inc.			
Addre	ess	: One GOJO Plaza, Suite 500 Akron OH 44311			
Telep	hone	: 1 (330) 255-6000			
Emer	gency telephone	: 1-800-424-9300 CHEMTREC			
Recommended use of the o		hemical and restrictions on use			
Reco	mmended use	: Hand Sanitizer			
Restrictions on use		: This is a personal care or cosmetic product that is safe consumers and other users under normal and reasonal foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consum While this material is not considered hazardous, this SD contains valuable information critical to the safe handlin proper use of the product for industrial workplace condi as well as unusual and unintended exposures such as I 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.	bly ener. DS ng and tions		

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	: Category 3
Eye irritation	: Category 2A
GHS Label element Hazard pictograms	
Signal Word	: Warning
Hazard Statements	: H226 Flammable liquid and vapor. H319 Causes serious eye irritation.



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Preca	utionary Statements	No smoking. P233 Keep cont P241 Use explo equipment. P242 Use only r P243 Take prec P264 Wash skin P280 Wear prot Response: P303 + P361 + I all contaminated P305 + P351 + I for several minu to do. Continue P337 + P313 If o attention. Storage: P403 + P235 St Disposal:	y from heat/sparks/open flames/hot surfaces ainer tightly closed. sion-proof electrical/ ventilating/ lighting/ non-sparking tools. autionary measures against static discharge. thoroughly after handling. ective gloves/ eye protection/ face protection. P353 IF ON SKIN (or hair): Take off immediately I clothing. Rinse skin with water/shower. P338 IF IN EYES: Rinse cautiously with water tes. Remove contact lenses, if present and easy rinsing. eye irritation persists: Get medical advice/ ore in a well-ventilated place. Keep cool. f contents/ container to an approved waste

Other hazards

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Ethanol	64-17-5	>= 50 - < 70
Propan-2-ol	67-63-0	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek medic advice immediately. When symptoms persist or in all cases of doubt seek m advice.	
If inhaled	If inhaled, remove to fresh air. Get medical attention if symptoms occur.	
In case of skin contact	Wash with water and soap as a precaution. Get medical attention if symptoms occur.	
In case of eye contact	In case of contact, immediately flush eyes with plenty of for at least 15 minutes. If easy to do, remove contact lens, if worn.	f water



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If swallowed		 Get medical attention. If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. 		
Most important symptoms and effects, both acute and delayed		: Causes serious eye irritation.		
Protection of first-aiders		and use the re	nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists.	
Not	es to physician	: Treat sympton	natically and supportively.	

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO2)
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	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. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	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	 Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	: Discharge into the environment must be avoided.



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		Prevent spreadi barriers). Retain and disp	leakage or spillage if safe to do so. ng over a wide area (e.g. by containment or oil ose of contaminated wash water. s should be advised if significant spillages ined.
Methods and materials for containment and cleaning up		Soak up with ine Suppress (knock jet. For large spills, containment to k can be pumped, container. Clean up remain absorbent. Local or nationa disposal of this n employed in the determine which Sections 13 and	ols should be used. ert absorbent material. k down) gases/vapors/mists with a water spray provide diking or other appropriate keep material from spreading. If diked material s store recovered material in appropriate hing materials from spill with suitable I regulations may apply to releases and material, as well as those materials and items cleanup of releases. You will need to n regulations are applicable. I 15 of this SDS provide information regarding hational requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Local/Total ventilation	: Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.	
Advice on safe handling	 Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safe practice. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment. 	-
Conditions for safe storage	 Keep in properly labeled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition. 	
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents	



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		5	s s stances and mixtures mixtures which in contact with water emit

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

·	•			
Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	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
Propan-2-ol	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

Ingredients with workplace control parameters

Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentratio n	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

Engineering measures

: Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation. Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection: General and local exhaust ventilation is recommended to
maintain vapor exposures below recommended limits. Where
concentrations are above recommended limits or are
unknown, appropriate respiratory protection should be worn.
Follow OSHA respirator regulations (29 CFR 1910.134) and



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			by air purifying re hazardous chemi supplied respirato release, exposure	A approved respirators. Protection provided spirators against exposure to any cal is limited. Use a positive pressure air or if there is any potential for uncontrolled e levels are unknown, or any other ere air purifying respirators may not provide ion.
	l protection aterial	:	Impervious glove	s
Ma	aterial	:	Flame retardant ç	gloves
Re	emarks	:	on the concentrat time is not determ For special applic resistance to che	protect hands against chemicals depending tion specific to place of work. Breakthrough nined for the product. Change gloves often! cations, we recommend clarifying the micals of the aforementioned protective ove manufacturer. Wash hands before e end of workday.
Eyeı	protection	:	Wear the followin Safety goggles	g personal protective equipment:
Skin	and body protection	:	resistance data a potential. Wear the followin Flame retardant a Skin contact mus	e protective clothing based on chemical nd an assessment of the local exposure g personal protective equipment: antistatic protective clothing. t be avoided by using impervious protective aprons, boots, etc).
Hygid	ene measures	:	located close to the When using do not	lushing systems and safety showers are he working place. ot eat, drink or smoke. red clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, Colorless to pale yellow
Odor	: citrus
Odor Threshold	: No data available
рН	: 6.5 - 8.5
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: 70 °C



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		aint		25 %		
	Flash p	point	:	25 °C		
	Evapor	ation rate	:	No data available	9	
	Flamm	ability (solid, gas)	:	Not applicable		
	Upper e	explosion limit	:	No data available	9	
	Lower	explosion limit	:	No data available	9	
	Vapor p	oressure	:	No data available	9	
	Relative vapor density		:	No data available	9	
	Density	/	:	0.8750 g/cm3		
	Solubili Wate	ity(ies) er solubility	:	soluble		
	Partitio octanol	n coefficient: n- /water	:	Not applicable		
	Autoigr	nition temperature	:	No data available	9	
	Decom	position temperature	:	The substance or	r mixture is not classified self-reactive.	
	Viscosi Visco	ty osity, kinematic	:	3,500 - 23,000 m	ım2/s (20 °C)	
	Explosi	ve properties	:	Not explosive		
	Oxidiziı	ng properties	:	The substance or	r 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 reac- tions	: Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.



ersion .1	Revision Date: 02/10/2015		DS Number: 79-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014
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Infor Inhala Skin o Inges	mation on likely rout ation contact	-	_	
	e toxicity		c (1)	
	lassified based on ava	ilable ir	iformation.	
Produ Acute	u <u>ct:</u> e oral toxicity		Acute toxicity e Method: Calcul	stimate: > 5,000 mg/kg ation method
Ingre	<u>dients:</u>			
Ethar	-			
Acule	oral toxicity		LD50 (Rat): > 5	5,000 mg/kg
Acute	inhalation toxicity		LC50 (Rat): 12 Exposure time: Test atmosphe	4 h
Propa	an-2-ol:			
	oral toxicity	:	LD50 (Rat): > 5	5,000 mg/kg
Acute	inhalation toxicity		LC50 (Rat): 72 Exposure time: Test atmosphe	4 h
Acute	e dermal toxicity	:	LD50 (Rat): > 5	5,000 mg/kg
Skin	corrosion/irritation			
Not c	lassified based on ava	ilable ir	formation.	
<u>Prod</u> Resu	uct: lt: No skin irritation			
Ethar Speci	<u>dients:</u> nol: es: Rabbit od: OECD Test Guide	line 404		

Method: OECD Test Guideline 404 Result: No skin irritation

Propan-2-ol:

Species: Rabbit Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Ingredients:



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Resu Meth	nol: cies: Rabbit ult: Irritation to eyes, rev od: OECD Test Guidelin oan-2-ol:		3	
Spec	sies: Rabbit llt: Irritation to eyes, rev	ersing within 21 days	3	
Skin	Diratory or skin sensiti sensitization: Not classi Diratory sensitization: Not	ified based on availal		
<u>Proc</u> Asse	luct: essment: Does not cause	e skin sensitization.		
Etha Test Rout Spec	edients: nol: Type: Local lymph node es of exposure: Skin co cies: Mouse ult: negative			
Test Rout Spec Meth	pan-2-ol: Type: Buehler Test es of exposure: Skin co sies: Guinea pig iod: OECD Test Guidelii ilt: negative			
	n cell mutagenicity classified based on avai	lable information.		
Ingre	edients:			
Etha Gene	nol: otoxicity in vitro	: Test Type: In v Result: negativ	vitro mammalian cell gene mutation test ve	
Gene	otoxicity in vivo	: Test Type: Roo Species: Mous Application Ro Result: negativ	oute: Ingestion	
	pan-2-ol: ptoxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) ve	
Gene	otoxicity in vivo	cytogenetic as Species: Mous	se pute: Intraperitoneal injection	vo



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	nogenicity assified based on availa	ble information.			
Propa Speci Applic Expos Metho	dients: an-2-ol: es: Rat cation Route: inhalation (sure time: 104 weeks od: OECD Test Guideline t: negative				
IARC	:		is product present at levels greater than or entified as probable, possible or confirmed by IARC.		
OSH	A		is product present at levels greater than or entified as a carcinogen or potential carcino		
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogory NTP.			
Not cl	oductive toxicity assified based on availa	ble information.			
Ethar	<u>dients:</u> nol: s on fertility	Species: Mouse Application Rou	ite: Ingestion Test Guideline 416		
	a n-2-ol: s on fertility	: Test Type: Two Species: Rat Application Rou Result: negative			
Effect	s on fetal development	: Test Type: Emb Species: Rat Application Rou Result: negative			
	-single exposure assified based on availa	ble information.			

Assessment: May cause drowsiness or dizziness.



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STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Ingredients:

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

Propan-2-ol:

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

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients: Ethanol: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
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
Propan-2-ol: 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 algae	:	ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800 mg/l



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		Exposure time:	8 d				
Toxici	ty to bacteria		: EC50 (Pseudomonas putida): > 1,050 mg/l Exposure time: 16 h				
Persi	stence and degrada	bility					
Ingre	dients:						
Ethar Biode	iol: gradability	: Result: Readily Biodegradation: Exposure time:	84 %				
	a n-2-ol: gradability	: Result: rapidly d	legradable				
Bioac	cumulative potentia	I					
Ingre	dients:						
	iol: on coefficient: n- ol/water	: log Pow: -0.35					
Partiti	a n-2-ol: on coefficient: n- ol/water	: log Pow: 0.05					
Mobil	ity in soil						
No da	ta available						
	adverse effects Ita 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. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG

UN number	:	UN 1987
Proper shipping name	:	ALCOHOLS, N.O.S.



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Class Packin Labels	ig group	(Ethanol, Propa : 3 : III : 3	ın-2-ol)	
IATA-I UN/ID Proper Class Packin Labels Packin aircraft Packin	DGR No. shipping name g group g instruction (cargo t) g instruction	: UN 1987 : Alcohols, n.o.s. (Ethanol, Propa : 3 : III : Flammable Liq : 366 : 355	ın-2-ol)	
IMDG- UN nu Proper Class Packin Labels EmS C	mber shipping name ng group	: UN 1987 : ALCOHOLS, N (Ethanol, Propa : 3 : III : 3 : F-E, S-D : no		
Trans Not ap		-	RPOL 73/78 and the IBC Code	
	R /NA number shipping name	:UN 1987 :ALCOHOLS, N	.O.S.	
Class		: 3		

Class	: 3
Packing group	: 111
Labels	: FLAMMABLE LIQUID
ERG Code	: 127
Marine pollutant	: no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

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



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			Acute Health H	azard		
SARA 302			No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.			
SAR	A 313	: The following components are subject to reporting le established by SARA Title III, Section 313:			orting levels	
			Propan-2-ol	67-63-0	3.4086 %	
US S	tate Regulations					
Penn	sylvania Right To K	now				
	Ethanol			64-17-5	50 - 70 %	
	Water			7732-18-5	30 - 50 %	
	Propan-2-	ol		67-63-0	1 - 5 %	
New	Jersey Right To Kno	w				
	Ethanol			64-17-5	50 - 70 %	
	Water			7732-18-5	30 - 50 %	
	Propan-2-	ol		67-63-0	1 - 5 %	
Califo	ornia Prop 65		This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.			

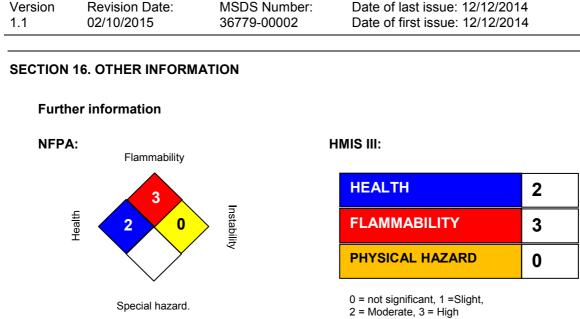
AICS

: All ingredients listed or exempt.

Inventories

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





4 = Extreme, * = Chronic

Full text of other abbreviations

	00	
ACGIH ACGIH BEI		USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI)
NIOSH REL		USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	:	8-hour time weighted average
Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
Revision Date	:	02/10/2015

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8