

Version 1.2	Revision Date: 03/18/2015		SDS Number: 799-00003	Date of last issue: 02/10/2015 Date of first issue: 12/12/2014
SECTION	1. IDENTIFICATION			
Produ	ct name	:	PURELL® Advan	ced Hand Sanitizer Refreshing Aloe
Manu	facturer or supplier's	deta	ails	
	any name of supplier		GOJO Industries,	Inc.
Addre	SS	:	One GOJO Plaza Akron OH 44311	i, Suite 500
Telepl	none	:	1 (330) 255-6000	
Emerç	gency telephone	:	1-800-424-9300	CHEMTREC
Recor	nmended use of the o	chem	nical and restriction	ons on use
Recor	nmended use	:	Hand Sanitizer	
Restri	ctions on use	:	consumers and o foreseeable use. specifically define exempt from the n While this materia contains valuable proper use of the as well as unusua spills. This SDS s employees and o intended-use guid	I care or cosmetic product that is safe for ther users under normal and reasonably Cosmetics and consumer products, ed by regulations around the world, are requirement of an SDS for the consumer. al is not considered hazardous, this SDS information critical to the safe handling and product for industrial workplace conditions al and unintended exposures such as large should be retained and available for ther users of this product. For specific dance, please refer to the information ackage or instruction sheet.

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.



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		H319 Causes se	erious eye irritation.
Preca	autionary 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/ hon-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 d 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 me advice immediately. When symptoms persist or in all cases of doubt seek 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.	



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In ca	ase of eye contact	for at least 15	emove contact lens, if worn.		
If swallowed		: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.			
	t important symptoms effects, both acute and yed	: Causes seriou	is eye irritation.		
Prote	ection of first-aiders	and use the re	onders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists.		
Note	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, : Remove all sources of ignition.



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		ive equipment and ency procedures			tective equipment. ing advice and personal protective mendations.
Er	nviror	nmental precautions	:	Prevent further le Prevent spreading barriers). Retain and dispos	e environment must be avoided. akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages ied.
		ls and materials for ment and cleaning up	:	Suppress (knock jet. For large spills, p containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national disposal of this m employed in the c determine which Sections 13 and	Is should be used. t absorbent material. down) gases/vapors/mists with a water spray rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. IS of this SDS provide information regarding tional 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 safety 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.



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Materia	als to avoid	Store in accordan Keep away from I	ell-ventilated place. nce with the particular national regulations. heat and sources of ignition. the following product types: agents
			s s itances 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	Biological	Sam-	Permissible	Basis
3		parameters	specimen	pling	concentratio	
		•		time	n	
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.



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Pers	sonal protective equipn	nent	
Res	piratory protection	maintain vap concentratio unknown, ap Follow OSH/ use NIOSH/ by air purifyi hazardous c supplied res release, exp	local exhaust ventilation is recommended to our exposures below recommended limits. Where ns are above recommended limits or are opropriate respiratory protection should be worn. A respirator regulations (29 CFR 1910.134) and MSHA approved respirators. Protection provided ng respirators against exposure to any hemical is limited. Use a positive pressure air pirator if there is any potential for uncontrolled osure levels are unknown, or any other e where air purifying respirators may not provide otection.
	d protection aterial	: Impervious g	ploves
М	aterial	: Flame retarc	lant gloves
R	emarks	on the conce time is not d For special a resistance to gloves with t	tes to protect hands against chemicals depending entration specific to place of work. Breakthrough etermined for the product. Change gloves often! applications, we recommend clarifying the o chemicals of the aforementioned protective he glove manufacturer. Wash hands before at the end of workday.
Eye	protection	: Wear the fol Safety goggl	lowing personal protective equipment: es
Skin	and body protection	resistance d potential. Wear the fol Flame retarc Skin contact	priate protective clothing based on chemical ata and an assessment of the local exposure lowing personal protective equipment: lant antistatic protective clothing. must be avoided by using impervious protective ves, aprons, boots, etc).
Hygi	ene measures	located close When using	eye flushing systems and safety showers are e to the working place. do not eat, drink or smoke. minated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear, light green
Odor	:	alcohol-like



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	Odor T	hreshold	:	No data available	
	рН		:	6.5 - 8.5	
	Melting	point/freezing point	:	No data available	
	Initial b range	oiling point and boiling	:	76 °C	
	Flash p	oint	:	24 °C	
	Evapor	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Upper e	explosion limit	:	No data available	
	Lower e	explosion limit	:	No data available	
	Vapor p	oressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Density	/	:	0.881 g/cm3	
	Solubili Wate	ty(ies) er solubility	:	soluble	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Autoigr	nition temperature	:	No data available	
	Decom	position temperature	:	The substance or	mixture is not classified self-reactive.
	Viscosi Visco	ty osity, kinematic	:	3,500 - 23,000 m	m2/s (20 °C)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng 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 reac- tions	:	Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.



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Condi	itions to avoid	: Heat, flames	and sparks.
Incom	patible materials	: Oxidizing age	nts
Hazaı produ	rdous decomposition cts	: No hazardous	s decomposition products are known.
ECTION	11. TOXICOLOGICA	- INFORMATION	
Inhala Skin o Inges	contact	es of exposure	
	e toxicity assified based on ava	ilable information.	
<u>Produ</u> Acute	uct: oral toxicity	: Acute toxicity Method: Calcu	estimate: > 5,000 mg/kg lation method
Ethar	dients: nol: oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 12 Exposure time Test atmosphe	:4 h
	an-2-ol: oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 72 Exposure time Test atmosphe	: 4 h
Acute	dermal toxicity	: LD50 (Rat): >	5,000 mg/kg
-	corrosion/irritation assified based on ava	ilable information.	
Produ	uct:		
Resul	t: No skin irritation		
Ethar Speci	<mark>dients:</mark> iol: es: Rabbit od: OECD Test Guidel		

Method: OECD Test Guideline 404 Result: No skin irritation



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Propan-2-ol:

Species: Rabbit Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Ingredients:

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

Propan-2-ol:

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.

Product:

Assessment: Does not cause skin sensitization.

Ingredients:

Ethanol:

Test Type: Local lymph node assay (LLNA) Routes of exposure: Skin contact Species: Mouse Result: negative

Propan-2-ol:

Test Type: Buehler Test Routes of exposure: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

Ethanol: 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) Species: Mouse Application Route: Ingestion Result: negative



/ersion .2	Revision Date: 03/18/2015	MSDS Number: 36799-00003	Date of last issue: 02/10/2015 Date of first issue: 12/12/2014				
	an-2-ol: toxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) /e				
Geno	toxicity in vivo	cytogenetic as Species: Mous Application Ro	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative				
	i nogenicity lassified based on availa	ble information.					
Prop Spec Applic Expo Methe	dients: an-2-ol: ies: Rat cation Route: inhalation sure time: 104 weeks od: OECD Test Guideline It: negative						
IARC	;		his product present at levels greater than or dentified as probable, possible or confirmed n by IARC.				
OSH	Α		his product present at levels greater than or dentified as a carcinogen or potential carcino-				
NTP		No ingredient of t equal to 0.1% is i by NTP.	his product present at levels greater than or dentified as a known or anticipated carcinogen				
-	oductive toxicity lassified based on availa	ble information.					
	dients:						
Ethai Effec	nol: ts on fertility	Species: Mous Application Ro	ute: Ingestion) Test Guideline 416				
	an-2-ol: ts on fertility	: Test Type: Tw Species: Rat Application Ro Result: negativ					
Effec	ts on fetal development	: Test Type: Em Species: Rat Application Ro	bryo-fetal development ute: Ingestion				



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Result: negative

STOT-single exposure

Not classified based on available information.

Ingredients:

Propan-2-ol:

Assessment: May cause drowsiness or dizziness.

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



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Toxic	ity to bacteria		EC50 (Photoba Exposure time:	icterium phosphoreum): 32.1 mg/l 0.25 h			
	an-2-ol: ity to fish		LC50 (Pimepha Exposure time:	ales promelas (fathead minnow)): 10,000 mg/ 96 h			
	ity to daphnia and other tic invertebrates		: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h				
Toxic	ity to algae		ErC50 (Scenec mg/l Exposure time:	lesmus quadricauda (Green algae)): > 1,800 8 d			
Toxic	ity to bacteria		EC50 (Pseudo Exposure time:	nonas putida): > 1,050 mg/l 16 h			
Persi	stence and degradabil	ity					
Ingre	dients:						
Ethai Biode	nol: egradability		Result: Readily Biodegradation Exposure time:				
	an-2-ol: egradability	:	Result: rapidly	degradable			
Bioad	ccumulative potential						
Ingre	dients:						
	nol: ion coefficient: n- ol/water	:	log Pow: -0.35				
Partit	an-2-ol: ion coefficient: n- ol/water	:	log Pow: 0.05				
Mobi	lity in soil						
	ata available						
Othe	ata available r adverse effects						

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Dispose of in accordance with local regulations.
Contaminated packaging	: Dispose of as unused product.



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		Empty containe	rs should be taken to an approved was

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

: UN 1987 : ALCOHOLS, N.O.S.
(Ethanol, Propan-2-ol) : 3 : III : 3
 : UN 1987 : Alcohols, n.o.s. (Ethanol, Propan-2-ol) : 3 : III : Flammable Liquids : 366 : 355
 : UN 1987 : ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol) : 3 : III : 3 : F-E, S-D : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Not applicable for product as sup

Domestic regulation

49 CFR UN/ID/NA number Proper shipping name	: UN 1987 : ALCOHOLS, N.O.S.
Class	: 3
Packing group	: III
Labels	: FLAMMABLE LIQUID
ERG Code	: 127



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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 :		Hazard te Health Hazard		
SARA 302	:	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:			
		Prop	ban-2-ol	67-63-0	3.4086 %
US State Regulations					
Pennsylvania Right To Know					
	Ethanol			64-17-5	50 - 70 %
	Water			7732-18-5	30 - 50 %
	Propan-2-ol			67-63-0	1 - 5 %
New Jersey Ri	ght To Know				
-	Ethanol			64-17-5	50 - 70 %
	Water			7732-18-5	30 - 50 %
	Propan-2-ol			67-63-0	1 - 5 %
California Prop 65		Stat	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.		

The ingredients of this product are reported in the following inventories: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), TCSI (Taiwan), TSCA (USA)



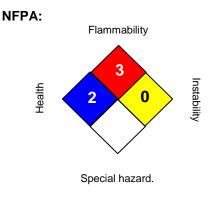
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SECTION 16. OTHER INFORMATION

Further information



HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		
ACGIH BEI	:	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		
Courses of key data used to		Internal technical data, data from row motorial CDCs, OECD		
Sources of key data used to	•	Internal technical data, data from raw material SDSs, OECD		
compile the Material Safety Data Sheet		eChem Portal search results and European Chemicals Agen-		
Data Sheet		cy, http://echa.europa.eu/		
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	•	00/10/2010		

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.

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