

Version 1.2	Revision Date: 02/11/2015	MSDS Number:Date of last issue: 01/16/2046679-00003Date of first issue: 01/13/20	
SECTION	1. IDENTIFICATION		
Produ	uct name	: PURELL® Instant Hand Sanitizer Gel VF481™	I
Manu	facturer or supplier's	etails	
	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	
Reco	mmended use of the o	emical and restrictions on use	
Reco	mmended use	: Hand Sanitizer	
Restr	ictions on use	: This is a personal care or cosmetic product that consumers and other users under normal and foreseeable use. Cosmetics and consumer pro- specifically defined by regulations around the we exempt from the requirement of an SDS for the While this material is not considered hazardous contains valuable information critical to the safe proper use of the product for industrial workplat as well as unusual and unintended exposures spills. This SDS should be retained and available employees and other users of this product. For intended-use guidance, please refer to the infor provided on the package or instruction sheet.	reasonably ducts, vorld, are consumer. s, this SDS e handling and ce conditions such as large ole for specific

## 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.



Version	Revision Date:	MSDS Number:	Date of last issue: 01/16/2015
1.2	02/11/2015	46679-00003	Date of first issue: 01/13/2015
Preca	autionary Statements	No smoking. P233 Keep cont P241 Use explo- equipment. P242 Use only r P243 Take prec P264 Wash skin P280 Wear prote <b>Response:</b> P303 + P361 + I all contaminated P305 + P351 + I for several minu to do. Continue P337 + P313 If e attention. <b>Storage:</b> P403 + P235 Ste <b>Disposal:</b>	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 medical advice immediately. When symptoms persist or in all cases of doubt seek medic advice.	cal
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 wa for at least 15 minutes. If easy to do, remove contact lens, if worn.	iter



Version 1.2	Revision Date: 02/11/2015	MSDS Number: 46679-00003	Date of last issue: 01/16/2015 Date of first issue: 01/13/2015	
lf sw	allowed	Get medical a	ttention. DO NOT induce vomiting. ttention if symptoms occur. horoughly with water.	
Most important symptoms and effects, both acute and delayed		: Causes serious eye irritation.		
Protection of first-aiders		and use the re	onders should pay attention to self-protection, ecommended 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 spr fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to hea	
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 so. Evacuate area.	
Special protective equipment for fire-fighters	In the event of fire, wear self-contained breathing appara Use personal protective equipment.	tus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	<ul> <li>Remove all sources of ignition.</li> <li>Use personal protective equipment.</li> <li>Follow safe handling advice and personal protective equipment recommendations.</li> </ul>
Environmental precautions	: Discharge into the environment must be avoided.



Versio 1.2	n Revision Date: 02/11/2015	MSDS Number: 46679-00003	Date of last issue: 01/16/2015 Date of first issue: 01/13/2015
M	ethods and materials for	Prevent spreadir barriers). Retain and dispo Local authorities cannot be contai	eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or oil ose of contaminated wash water. should be advised if significant spillages ined. ols should be used.
containment and cleaning up		Suppress (knock jet. For large spills, p containment to k can be pumped, container.	ert absorbent material. (c down) gases/vapors/mists with a water spray provide diking or other appropriate (seep material from spreading. If diked material (store recovered material in appropriate) (store materials from spill with suitable)
		absorbent. Local or national disposal of this r employed in the determine which Sections 13 and	regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational 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 exh ventilation.	naust
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 practice. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharge Take care to prevent spills, waste and minimize releas environment.	es.
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 regula Keep away from heat and sources of ignition.	itions.
Materials to avoid	Do not store with the following product types: Strong oxidizing agents	



Version	Revision Date:	MSDS Number:	Date of last issue: 01/16/2015
1.2	02/11/2015	46679-00003	Date of first issue: 01/13/2015
		•	s 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



Version 1.2	Revision Date: 02/11/2015		SDS Number: 679-00003	Date of last issue: 01/16/2015 Date of first issue: 01/13/2015
			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 on.
	protection iterial	:	Impervious gloves	5
Ma	Material		Flame retardant g	loves
Re	marks	:	on the concentrat time is not determ For special applic resistance to che	protect hands against chemicals depending ion specific to place of work. Breakthrough hined for the product. Change gloves often! ations, we recommend clarifying the micals of the aforementioned protective ove manufacturer. Wash hands before end of workday.
Eye p	protection	:	Wear the followin Safety goggles	g personal protective equipment:
Skin a	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).
Hygie	ene measures	:	located close to the When using do not	lushing systems and safety showers are ne working place. ot eat, drink or smoke. ed clothing before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, Hazy, blue green
Odor	: alcohol-like
Odor Threshold	: No data available
рН	: 3.5 - 5.2
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: 75.00 °C



Versi 1.2	ion	Revision Date: 02/11/2015		DS Number: 079-00003	Date of last issue: 01/16/2015 Date of first issue: 01/13/2015
I	Flash p	oint	:	26.5 °C	
I	Evapora	ation rate	:	No data available	9
I	Flamma	ability (solid, gas)	:	Not applicable	
I	Upper e	explosion limit	:	No data available	)
I	Lower e	explosion limit	:	No data available	9
,	Vapor p	oressure	:	No data available	9
I	Relative	e vapor density	:	No data available	9
I	Density	,	:	0.8850 g/cm3	
:	Solubili Wate	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Autoign	ition temperature	:	No data available	
I	Decom	position temperature	:	The substance o	r mixture is not classified self-reactive.
,	Viscosi Visco	ty osity, kinematic	:	80 - 600 mm2/s (	20 °C)
I	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	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	<ul> <li>Flammable liquid and vapor.</li> <li>Vapors may form explosive mixture with air.</li> <li>Can react with strong oxidizing agents.</li> </ul>
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.



Version 1.2	Revision Date: 02/11/2015	MSDS Number: 46679-00003	Date of last issue: 01/16/2015 Date of first issue: 01/13/2015
SECTION	11. TOXICOLOGICA		
<b>Infor</b> Inhala Skin Inges	mation on likely route ation contact		
	<mark>e toxicity</mark> lassified based on ava	ilable information.	
Ingre	dients:		
<b>Etha</b> Acute	nol: e oral toxicity	: LD50 (Rat): > 5	,000 mg/kg
Acute	e inhalation toxicity	: LC50 (Rat): 124 Exposure time: Test atmospher	4 h
	an-2-ol:		
Acute	e oral toxicity	: LD50 (Rat): > 5	,000 mg/kg
Acute	e inhalation toxicity	: LC50 (Rat): 72. Exposure time: Test atmospher	4 h
Acute	e dermal toxicity	: LD50 (Rat): > 5	,000 mg/kg
Not c <u>Prod</u>	<b>corrosion/irritation</b> lassified based on ava <u>uct:</u> It: No skin irritation	ilable information.	
<b>Etha</b> Spec Meth	e <mark>dients:</mark> nol: ies: Rabbit od: OECD Test Guidel It: No skin irritation	ine 404	
Spec	<b>an-2-ol:</b> ies: Rabbit It: No skin irritation		
	ous eye damage/eye i es serious eye irritation		
Ingre	dients:		
Resu	n <b>ol:</b> ies: Rabbit lt: Irritation to eyes, rev od: OECD Test Guidel		



Version	Revision Date:	MSDS Number:
1.2	02/11/2015	46679-00003

Date of last issue: 01/16/2015 Date of first issue: 01/13/2015

#### 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
Propan-2-ol:	
Genotoxicity in vitro	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	<ul> <li>Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)</li> <li>Species: Mouse</li> <li>Application Route: Intraperitoneal injection</li> <li>Result: negative</li> </ul>

#### Carcinogenicity

Not classified based on available information.

## Ingredients:

#### Propan-2-ol:



rsion	Revision Date: 02/11/2015	MSDS Number: 46679-00003	Date of last issue: 01/16/2015 Date of first issue: 01/13/2015	
Applic Expose Metho	es: Rat cation Route: inhalation ( sure time: 104 weeks od: OECD Test Guideline t: negative			
IARC			his product present at levels greater than or dentified as probable, possible or confirmed h by IARC.	
OSH	A	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.		
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
Not cl	oductive toxicity assified based on availa	ble information.		
-	dients:			
Ethan Effect	iol: s on fertility	: Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative		
	a <b>n-2-ol:</b> s on fertility	: Test Type: Two Species: Rat Application Ro Result: negativ	-	
Effect	s on fetal development	: Test Type: Em Species: Rat Application Ro Result: negativ		
	-single exposure assified based on availa	ble information.		
Propa	dients: an-2-ol: ssment: May cause drow	vsiness or dizziness.		
	-repeated exposure			
	assified based on availa	ble information.		
Repea	ated dose toxicity			
Ingree	dients:			
Ethan	ol:			



Version 1.2	Revision Date: 02/11/2015		SDS Number: 679-00003	Date of last issue: 01/16/2015 Date of first issue: 01/13/2015		
NOA App	Species: Rat NOAEL: 2,400 mg/kg Application Route: Ingestion Exposure time: 2 y					
Spe NOA App Exp	<b>Propan-2-ol:</b> Species: Rat NOAEL: 5000 ppm Application Route: inhalation (vapor) Exposure time: 104 w Method: OECD Test Guideline 413					
-	iration toxicity classified based on availa	ble	information.			
SECTIO	N 12. ECOLOGICAL INFO	RN	IATION			
Eco	toxicity					
Etha	r <mark>edients:</mark> anol: icity to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): > 1,000 mg/l 6 h		
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): > 1,000 mg/l 8 h		
Toxi	icity to algae	:	Exposure time: 7	/ulgaris (Fresh water algae)): 275 mg/l 2 h rest Guideline 201		
aqua	icity to daphnia and other atic invertebrates ronic toxicity)	:	NOEC (Daphnia Exposure time: 9	magna (Water flea)): 9.6 mg/l d		
Тохі	icity to bacteria	:	EC50 (Photobact Exposure time: 0	erium phosphoreum): 32.1 mg/l .25 h		
	pan-2-ol: icity to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 10,000 mg/l 6 h		
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia n Exposure time: 2	nagna (Water flea)): > 10,000 mg/l 4 h		
Тохі	icity to algae	:	ErC50 (Scenedes mg/l Exposure time: 8	smus quadricauda (Green algae)): > 1,800 d		
Toxi	icity to bacteria	:	EC50 (Pseudomo Exposure time: 1	onas putida): > 1,050 mg/l 6 h		



ersion .2	Revision Date: 02/11/2015	MSDS Number: 46679-00003	Date of last issue: 01/16/2015 Date of first issue: 01/13/2015
Persi	stence and degrada	bility	
Ingre	dients:		
Ethar			
Biode	egradability	: Result: Readily Biodegradation Exposure time:	84 %
Prop	an-2-ol:		
	egradability	: Result: rapidly of	legradable
Bioad	ccumulative potentia	al	
Ingre	dients:		
Ethar	-		
	ion coefficient: n- ol/water	: log Pow: -0.35	
Propa	an-2-ol:		
	ion coefficient: n- ol/water	: log Pow: 0.05	
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		

#### SECTION 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods</b> Waste from residues	: Dispose of in accordance with local regulations.
Contaminated packaging	<ul> <li>Dispose of as unused product.</li> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>Do not burn, or use a cutting torch on, the empty drum.</li> </ul>

### SECTION 14. TRANSPORT INFORMATION

International Regulation

<b>UNRTDG</b> UN number Proper shipping name	: UN 1987 : ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)
Class	: 3
Packing group	: 111
Labels	: 3
IATA-DGR	



Version 1.2	Revision Date: 02/11/2015	MSDS Number: 46679-00003	Date of last issue: 01/16/2015 Date of first issue: 01/13/2015
Class Packii Labels Packii aircra Packii	r shipping name ng group s ng instruction (cargo	<ul> <li>: UN 1987</li> <li>: Alcohols, n.o.s. (Ethanol, Propa</li> <li>: 3</li> <li>: III</li> <li>: Flammable Liqu</li> <li>: 366</li> <li>: 355</li> </ul>	an-2-ol)
UN nu Prope Class Packin Labels EmS	r shipping name ng group s	<ul> <li>: UN 1987</li> <li>: ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)</li> <li>: 3</li> <li>: III</li> <li>: 3</li> <li>: F-E, S-D</li> <li>: no</li> </ul>	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.			

#### Domestic regulation

<b>49 CFR</b> UN/ID/NA number Proper shipping name	: UN 1987 : ALCOHOLS, N.O.S.
Class	: 3
Packing group	: III
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 Acute Health Hazard
SARA 302	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.



Version 1.2	Revision Date: 02/11/2015	MSDS Number: 46679-00003	Date of last issue: 01/16/2 Date of first issue: 01/13/2		
SAR	A 313		omponents are subject to rep SARA Title III, Section 313:	orting levels	
		Propan-2-ol	67-63-0	3.4086 %	
US S	State Regulations				
Penr	nsylvania Right To Kn	ow			
	Ethanol		64-17-5	50 - 70 %	
	Water		7732-18-5	30 - 50 %	
	Propan-2-o	I	67-63-0	1 - 5 %	
New	Jersey Right To Know	v			
	Ethanol		64-17-5	50 - 70 %	
	Water		7732-18-5	30 - 50 %	
	Propan-2-o	l	67-63-0	1 - 5 %	
Calif	ornia Prop 65	State of Californ	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.		
The	The ingredients of this product are reported in the following inventories:				
AICS	• .	: All ingredients li	•		
Inve	ntories				

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

### **SECTION 16. OTHER INFORMATION**

#### **Further information**



### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)



Version 1.2	Revision Date: 02/11/2015		SDS Number: 679-00003	Date of last issue: 01/16/2015 Date of first issue: 01/13/2015	
ACGIH	BEI	:	ACGIH - Biologic	al Exposure Indices (BEI)	
NIOSH REL			: USA. NIOSH Recommended Exposure Limits		
OSHA	Z-1			al Exposure Limits (OSHA) - Table Z-1 Lim-	
ACGIF	I/TWA	: 8-hour, time-weighted average			
ACGIH			Short-term exposure limit		
NIOSH	I REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek			
NIOSH	I REL / ST	: STEL - 15-minute TWA exposure that should not be exceed at any time during a workday		TWA exposure that should not be exceeded	
OSHA	Z-1 / TWA	: 8-hour time weighted average			
	es of key data used to e the Material Safety theet	: Internal technical data, data from raw material SDSs, OE eChem Portal search results and European Chemicals A cy, http://echa.europa.eu/		arch results and European Chemicals Agen-	
Revisio	on Date	:	02/11/2015		

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.

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