



# **PURELL® Advanced Instant Hand Sanitizer**

Version 1.1	Revision Date: 02/10/2015		SDS Number: 6762-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014
SECTION	1. IDENTIFICATION			
Prod	uct name	:	PURELL® Adv	anced Instant Hand Sanitizer
Manu	ufacturer or supplier's	det	ails	
Com	pany name of supplier	;	GOJO Industrie	es, Inc.
Addre	ess	:	One GOJO Pla Akron OH 4431	
Telep	phone	:	1 (330) 255-60	00
Emer	gency telephone	:	1-800-424-930	0 CHEMTREC
Reco	ommended use of the	cher	nical and restric	ctions on use
Reco	mmended use	;	Hand Sanitizer	
Restr	rictions on use	:	consumers and foreseeable us specifically defi exempt from th While this mate contains valuat proper use of th as well as unus spills. This SDS employees and intended-use g	nal care or cosmetic product that is safe for d other users under normal and reasonably e. Cosmetics and consumer products, ined by regulations around the world, are e requirement of an SDS for the consumer. erial is not considered hazardous, this SDS ble information critical to the safe handling and he product for industrial workplace conditions sual and unintended exposures such as large S should be retained and available for I other users of this product. For specific uidance, please refer to the information e package or instruction sheet.

#### SECTION 2. HAZARDS IDENTIFICATION

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



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Precautionary	Statements	No smoking. P233 Keep con P241 Use explo equipment. P242 Use only I P243 Take preof P264 Wash skin P280 Wear prof <b>Response:</b> P303 + P361 + all contaminate P305 + P351 + for several minuto to do. Continue P337 + P313 If attention. <b>Storage:</b> P403 + P235 S <b>Disposal:</b>	ay from heat/sparks/open flames/hot surfaces tainer tightly closed. osion-proof electrical/ ventilating/ lighting/ non-sparking tools. cautionary measures against static discharge. In thoroughly after handling. tective 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 of s. Remove contact lenses, if present and easy rinsing. eye irritation persists: Get medical advice/ tore in a well-ventilated place. Keep cool. of contents/ container to an approved waste

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

: If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
: Wash with water and soap as a precaution. Get medical attention if symptoms occur.,
<ul> <li>In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.</li> <li>If easy to do, remove contact lens, if worn.</li> </ul>



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		Get medical att	ention.
lf swa	allowed	Get medical att	O NOT induce vomiting. ention if symptoms occur. oroughly with water.
	important symptoms iffects, both acute and ed	: Causes serious	s eye irritation.
Prote	ction of first-aiders	and use the rec	nders should pay attention to self-protection, commended personal protective equipment tial for exposure exists.
Notes	s to physician	: Treat symptom	atically 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 spread barriers). Retain and disp	leakage or spillage if safe to do so. ling over a wide area (e.g. by containment or oil pose of contaminated wash water. is should be advised if significant spillages ained.
	ods and materials for inment and cleaning up	Soak up with in Suppress (know jet. For large spills, containment to can be pumped container. Clean up remai absorbent. Local or nationa disposal of this employed in the determine whic Sections 13 an	bols should be used. ert absorbent material. ck down) gases/vapors/mists with a water spray provide diking or other appropriate keep material from spreading. If diked material d, store recovered material in appropriate ining materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to th regulations are applicable. d 15 of this SDS provide information regarding national requirements.

#### SECTION 7. HANDLING AND STORAGE

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

#### 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

#### **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 hazardous cher supplied respira release, exposi	CHA approved respirators. Protection provided respirators against exposure to any mical is limited. Use a positive pressure air ator if there is any potential for uncontrolled ure levels are unknown, or any other where air purifying respirators may not provide ction.
	protection Iterial	: Impervious glov	ves
Ma	terial	: Flame retardan	t gloves
Re	marks	on the concentr time is not dete For special app resistance to ch gloves with the	to protect hands against chemicals depending ration specific to place of work. Breakthrough rmined for the product. Change gloves often! dications, we recommend clarifying the nemicals of the aforementioned protective glove manufacturer. Wash hands before he end of workday.
Eye p	protection	: Wear the follow Safety goggles	ving personal protective equipment:
Skin a	and body protection	resistance data potential. Wear the follow Flame retardan Skin contact mo	ate protective clothing based on chemical and an assessment of the local exposure ving personal protective equipment: t antistatic protective clothing. ust be avoided by using impervious protective s, aprons, boots, etc).
Hygie	ene measures	located close to When using do	e flushing systems and safety showers are the working place. not eat, drink or smoke. nated clothing before re-use.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: gel
Color	: clear, light blue
Odor	: fruity
Odor Threshold	: No data available
рН	: 6.5 - 8.5
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: 73 °C



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	Flash	point	: 25 °C	
	Evapo	pration rate	: No data availab	le
	Flam	nability (solid, gas)	: Not applicable	
	Uppe	r explosion limit	: No data availab	le
	Lowe	r explosion limit	: No data availab	le
	Vapor	pressure	: No data availab	le
	Relati	ve vapor density	: No data availab	le
	Densi	ty	: 0.881 g/cm3	
		ility(ies) iter solubility	: soluble	
		on coefficient: n- ol/water	: Not applicable	
	Autoi	gnition temperature	: No data availab	le
	Deco	mposition temperature	: The substance	or mixture is not classified self-reactive.
	Visco Vis	sity cosity, kinematic	: 1,000 - 17,000	mm2/s (20 °C)
	Explo	sive properties	: Not explosive	
	Oxidi	zing 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.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.



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				-
CTION	11. TOXICOLOGICA	L INFORMATION		
Inhala Skin o Ingesi	contact	es of exposure		
Acute	e toxicity lassified based on ava	ilable information.		
Produ				
	oral toxicity	: Acute toxicity e Method: Calcula	stimate: > 5,000 mg/kg ation method	
Ingre Ethar	dients:			
	oral toxicity	: LD50 (Rat): > 5	,000 mg/kg	
Acute	inhalation toxicity	: LC50 (Rat): 124 Exposure time: Test atmosphere	4 h	
Propa	an-2-ol:			
	oral toxicity	: LD50 (Rat): > 5	,000 mg/kg	
Acute	inhalation toxicity	: LC50 (Rat): 72. Exposure time: Test atmosphered	4 h	
Acute	dermal toxicity	: LD50 (Rat): > 5	,000 mg/kg	
	corrosion/irritation lassified based on ava	ilable information.		
Produ Resul	<u>uct:</u> lt: No skin irritation			
Ethar Speci Metho	dients: nol: les: Rabbit od: OECD Test Guide lt: No skin irritation	line 404		
Speci	an-2-ol: es: Rabbit lt: No skin irritation			
Serio	us eye damage/eye	irritation		
	es serious eye irritatio			
Ingre	dients:			



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Resul	es: Rabbit	eversing within 21 days eline 405	
Speci	a <b>n-2-ol:</b> es: Rabbit t: Irritation to eyes, re	eversing within 21 days	
Resp	iratory or skin sensi	itization	
Skin s	sensitization: Not clas	sified based on availab Not classified based on	
Produ	uct:		
Asses	ssment: Does not cau	se skin sensitization.	
Inare	dients:		
Ethar Test			
	es: Mouse It: negative		
Route Speci Metho	Type: Buehler Test es of exposure: Skin o es: Guinea pig od: OECD Test Guide It: negative		
	cell mutagenicity assified based on av	ailable information.	
Ingre	dients:		
Ethar Geno	nol: toxicity in vitro	: Test Type: In vi Result: negative	tro mammalian cell gene mutation test e
Geno	toxicity in vivo	: Test Type: Rod Species: Mouse Application Rou Result: negative	ute: Ingestion
	a <b>n-2-ol:</b> toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES)
Geno	toxicity in vivo	: Test Type: Mar cytogenetic ass Species: Mouse	nmalian erythrocyte micronucleus test (in vivo say)



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rsion I	Revision Date: 02/10/2015	MSDS Number: 36762-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014
Carci	nogenicity		
	assified based on availa	ble information.	
Inare	dients:		
	an-2-ol:		
Speci	es: Rat		
Applic	ation Route: inhalation	(vapor)	
	sure time: 104 weeks od: OECD Test Guideling	e 451	
	t: negative		
1400		No. for some discussion of the	to an electronic statistics of a line of the statistics of the sta
IARC			is product present at levels greater than or lentified as probable, possible or confirmed
		human carcinoger	
OSH	Δ	No incredient of th	is product present at levels greater than or
00H			lentified as a carcinogen or potential carcino-
		gen by OSHA.	
NTP		No ingredient of th	is product present at levels greater than or
		equal to 0.1% is id	lentified as a known or anticipated carcinoge
		by NTP.	
Popr	ductive toxicity		
	assified based on availa	ble information.	
	dients:		
Ethar			
	s on fertility		-generation reproduction toxicity study
		Species: Mouse	
		Application Rou Method: OECD	ite: Ingestion Test Guideline 416
		Result: negative	
Propa	an-2-ol:		
	s on fertility	: Test Type: Two	-generation reproduction toxicity study
		Species: Rat	
		Application Rou Booult: pognting	
		Result: negative	3
Effect	s on fetal development	: Test Type: Emt	pryo-fetal development
		Species: Rat	ter Incention
		Application Rou Result: negative	
	-single exposure		
	assified based on availa	ble information.	
	dients:		
	in-2-ol:	cinece or distincts	
ASSes	sment: May cause drow	siness 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:

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Toxicity to algae	: ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800 mg/l
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h
Propan-2-ol: Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l Exposure time: 96 h
Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): 32.1 mg/l Exposure time: 0.25 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d
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	: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h
Ethanol: Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h



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ersion 1	Revision Date: 02/10/2015	MSDS Number: 36762-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014
		Exposure time:	8 d
Toxic	ity to bacteria	: EC50 (Pseudor Exposure time:	nonas putida): > 1,050 mg/l 16 h
Persi	stence and degrada	bility	
Ingre	dients:		
Ethar	nol:		
Biode	gradability	: Result: Readily Biodegradation Exposure time:	84 %
Prop	an-2-ol:		
	gradability	: Result: rapidly	degradable
Bioad	cumulative potentia	al	
Ingre	dients:		
Ethar	nol:		
	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		

# 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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		(Ethanol, Propa	n-2-ol)
Class		: 3	
	ng group	: 111	
Label		: 3	
IATA	-DGR		
UN/IC	No.	: UN 1987	
Prope	er shipping name	: Alcohols, n.o.s.	
		(Ethanol, Propa	an-2-ol)
Class		: 3	
Packi	ng group	: 10	
Label	S	: Flammable Liqu	uids
Packi aircra	ng instruction (cargo ft)	: 366	
	ng instruction enger aircraft)	: 355	
IMDG	-Code		
	umber	: UN 1987	
	er shipping name	: ALCOHOLS, N (Ethanol, Propa	
Class		: 3	
Packing group		: 111	
Label		: 3	
	Code le pollutant	: F-E, S-D : no	
		-	RPOL 73/78 and the IBC Code
Not a	pplicable for product as	s supplied.	

**Domestic regulation** 

49 CFR	
UN/ID/NA number	: UN 1987
Proper shipping name	: ALCOHOLS, N.O.S.
Class	: 3
Packing group	: 10
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	
SAR	A 302		n this material are subject to f f SARA Title III, Section 302.	the reporting
SARA 313			omponents are subject to rep SARA Title III, Section 313:	orting levels
		Propan-2-ol	67-63-0	3.4086 %
US S	tate Regulations			
Penn	sylvania Right To Kno	ow		
	Ethanol		64-17-5	50 - 70 %
	Water		7732-18-5	30 - 50 %
	Propan-2-o	l 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	1	67-63-0	1 - 5 %
Calif	ornia Prop 65		bes not contain any chemical nia to cause cancer, birth, or efects.	
The i	ngredients of this pro	duct are reported in	the following inventories:	
REAC	СН	: All ingredients	(pre-)registered or exempt.	
TSCA	4		Il substances in this material are included on or from listing on the TSCA Inventory of Chemical s.	
DSL		1999 and NSN	hemical substances in this product comply with the CEP/ and NSNR and are on or exempt from listing on the adian Domestic Substances List (DSL).	
AICS		: All ingredients	listed or exempt.	
Inver	ntories			
			DEACH (European Union)	

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



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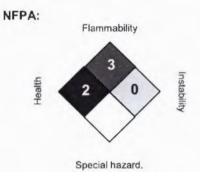
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#### SECTION 16. OTHER INFORMATION

**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	1	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 Agen- cy, 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, in-cluding an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US/Z8