

Version 1.3	Revision Date: 02/10/2015		SDS Number: 6432-00004	Date of last issue: 12/19/2014 Date of first issue: 12/11/2014
SECTION	1. IDENTIFICATION			
Produ	ct name	:	PURELL® Advan	ced Hand Sanitizer E3 Rated Gel
Manu	facturer or supplier's	deta	ails	
	any name of supplier	:		Inc.
Addre	SS	:	One GOJO Plaza Akron OH 44311	a, Suite 500
Telepł	none	:	1 (330) 255-6000	
Emerg	gency telephone	:	1-800-424-9300	CHEMTREC
Recor	nmended use of the o	chen	nical and restriction	ons on use
Recor	nmended use	:	Hand Sanitizer	
Restrie	ctions on use	:	consumers and o foreseeable use. specifically define exempt from the 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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1.3		36432-00004 H319 Causes set Prevention: P210 Keep away No smoking. P233 Keep conta P241 Use explose equipment. P242 Use only n P243 Take preca P264 Wash skin P280 Wear prote Response: P303 + P361 + F all contaminated P305 + P351 + F for several minut to do. Continue n P337 + P313 If e attention. Storage: P403 + P235 Sto Disposal:	Date of first issue: 12/11/2014 prious eye irritation. y from heat/sparks/open flames/hot surfaces ainer tightly closed. sion-proof electrical/ ventilating/ lighting/ on-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 clothing. Rinse skin with water/shower. P338 IF IN EYES: Rinse cautiously with water tes. Remove contact lenses, if present and easy insing. eye irritation persists: Get medical advice/ bre in a well-ventilated place. Keep cool.
		P501 Dispose of disposal plant.	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 medica advice immediately. When symptoms persist or in all cases of doubt seek me 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 cas	se of eye contact	for at least 15 r	emove contact lens, if worn.
lf swa	llowed	Get medical at	O NOT induce vomiting. tention if symptoms occur. horoughly with water.
	important symptoms ffects, both acute and ed	: Causes serious	s eye irritation.
Prote	ction of first-aiders	and use the red	nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists.
Notes	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, : Remove all sources of ignition.



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		e equipment and cy procedures			rective equipment. ing advice and personal protective mendations.
En	vironm	nental precautions	:	Prevent further lea 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 ed.
		and materials for ent and cleaning up	:	Suppress (knock jet. For large spills, pr containment to ke can be pumped, s container. Clean up remainir absorbent. Local or national r disposal of this m employed in the c determine which r Sections 13 and 1	s 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 leanup of releases. You will need to regulations are applicable. 5 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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		Store in accordar	vell-ventilated place. nce with the particular national regulations. heat and sources of ignition.
Materi	als to avoid	Strong oxidizing a Organic peroxide Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating subs	es 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	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	onal protective equipn	nent		
Resp	viratory protection	:	maintain vapor ex concentrations are unknown, approp Follow OSHA resp use NIOSH/MSH/ by air purifying res hazardous chemic supplied respirato release, exposure	exhaust ventilation is recommended to posures below recommended limits. Where e above recommended limits or are riate respiratory protection should be worn. pirator regulations (29 CFR 1910.134) and A approved respirators. Protection provided spirators against exposure to any cal is limited. Use a positive pressure air r if there is any potential for uncontrolled e levels are unknown, or any other ere air purifying respirators may not provide on.
	l protection aterial	:	Impervious gloves	3
Ma	aterial	:	Flame retardant g	loves
Re	emarks	:	on the concentrat time is not determ For special applic resistance to cher	protect hands against chemicals depending ion specific to place of work. Breakthrough ined for the product. Change gloves often! ations, we recommend clarifying the nicals of the aforementioned protective ove manufacturer. Wash hands before end of workday.
Eye	protection	:	Wear the following Safety goggles	g personal protective equipment:
Skin	and body protection	:	resistance data an potential. Wear the following Flame retardant a Skin contact must	e protective clothing based on chemical nd an assessment of the local exposure g personal protective equipment: intistatic protective clothing. be avoided by using impervious protective aprons, boots, etc).
Hygie	ene measures	:	located close to the When using do not	ushing 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
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	:	No data available		
	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	pressure	:	No data available		
	Relative	e vapor density	:	No data available		
	Density	,	:	0.88 g/cm3		
	Solubili Wate	ty(ies) er solubility	:	soluble		
	Partitio octanol	n coefficient: n- /water	:	Not applicable		
	Autoigr	ition temperature	:	No data available		
	Decom	position temperature	:	The substance or	mixture is not clas	sified self-reactive.
	Viscosi Visco	ty osity, kinematic	:	6,000 - 17,000 m	m2/s (20 °C)	
	Explosi	ve properties	:	Not explosive		
	Oxidizir	ng properties	:	The substance or	mixture is not clas	sified 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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Cond	itions to avoid	: Heat, flames	and sparks.
Incon	npatible materials	: Oxidizing age	ents
Haza produ	rdous decomposition	: No hazardou	s decomposition products are known.
CTION	11. TOXICOLOGICAI	INFORMATION	
Inhala Skin (Inges	contact	es of exposure	
Acute	e toxicity		
Not c	lassified based on ava	lable information.	
Prod Acute	<u>uct:</u> e oral toxicity		estimate: > 5,000 mg/kg Ilation method
Ingre	dients:		
Etha ı Acute	oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 12 Exposure time Test atmosph	ə: 4 h
	an-2-ol: e oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 7 Exposure time Test atmosph	e: 4 h
Acute	e dermal toxicity	: LD50 (Rat): >	5,000 mg/kg
	corrosion/irritation lassified based on ava	lable information.	
Prod			

Species: Rabbit 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:	: Test Type: In vitro mammalian cell gene mutation test
Genotoxicity in vitro	Result: negative
Genotoxicity in vivo	: Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: negative



rsion	Revision Date: 02/10/2015		SDS Number: 432-00004	Date of last issue: 12/19/2014 Date of first issue: 12/11/2014
	an-2-ol: toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
Genotoxicity in vivo		:	cytogenetic assa Species: Mouse	nalian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection
	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 Guideling t: negative			
IARC	:	e		product present at levels greater than or ntified as probable, possible or confirmed by IARC.
OSH	A	e		product present at levels greater than or ntified as a carcinogen or potential carcino-
NTP		e	o ingredient of this qual to 0.1% is ide y NTP.	product present at levels greater than or ntified as a known or anticipated carcinogen
-	oductive toxicity assified based on availa	ble	information.	
	dients:			
Ethar Effect	iol: s on fertility	:	Species: Mouse Application Route	generation reproduction toxicity study e: Ingestion rest Guideline 416
	a n-2-ol: s on fertility	:	Test Type: Two-o Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion
Effect	s on fetal development	:	Test Type: Embr Species: Rat Application Route	yo-fetal development e: 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 ic invertebrates	:	EC50 (Daphnia Exposure time:	n magna (Water flea)): > 10,000 mg/l 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 (Pseudor Exposure time:	nonas putida): > 1,050 mg/l 16 h
Persi	stence and degradabil	ity		
Ethar	<u>dients:</u> nol: egradability	:	Result: Readily Biodegradation Exposure time:	: 84 %
	a n-2-ol: gradability	:	Result: rapidly	degradable
Bioad	cumulative potential			
Ethar Partiti	<u>dients:</u> nol: ion coefficient: n- ol/water	:	log Pow: -0.35	
Partiti	an-2-ol: ion coefficient: n- ol/water	:	log Pow: 0.05	
Mobi	lity in soil			
No da	ata available			
	r adverse effects			
No da	ata available			

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 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 Proper shipping name		UN 1987 ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)	
Class	:	3	
Packing group	-		
Labels	•	3	
IATA-DGR UN/ID No. Proper shipping name	-	UN 1987 Alcohols, n.o.s. (Ethanol, Propan-2-ol)	
Class	:	3	
Packing group	:	III	
Labels	:	Flammable Liquids	
Packing instruction (cargo aircraft)	:	366	
Packing instruction (passenger aircraft)	:	355	
IMDG-Code			
UN number Proper shipping name	-	UN 1987 ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)	
Class	:	3	
Packing group	:		
Labels EmS Code	÷	3 F-E, S-D	
Marine pollutant	:	no	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			

Not applicable for product as supplied.

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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Marin	e 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	:		chemicals in this materia uirements of SARA Title	-	eporting
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 Right 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), NECSI (Taiwan), TSCA (USA)



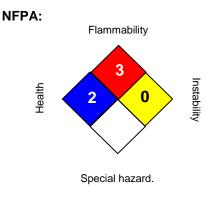
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SECTION 16. OTHER INFORMATION

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 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 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, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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