

Versior 1.1	n Revision Date: 02/08/2018		5 Number: 000000410	Date of last issue: 05/03/2017 Date of first issue: 05/03/2017				
SECTI	ON 1. IDENTIFICATION							
Pr	oduct name	: F	PURELL® Advanced Hand Rub					
M	anufacturer or supplier's	detail	s					
Co	ompany name of supplier	: (	GOJO Industries,	Inc.				
Ad	Address		One GOJO Plaza, Suite 500 Akron, Ohio, 44311					
Τe	Telephone		1 (330) 255-6000					
	Emergency telephone num- ber		CHEMTREC 1-800-424-9300 CHEMTREC +1-703-527-3887: Outside USA & CANADA					
Re	ecommended use of the	chemical and restrictions on use						
Re	Recommended use		Hand Sanitizer					
Restrictions on use		f c t i i s s t f f f t t f f t t t f f t t t t t	This is a personal care or cosmetic product that is safe consumers and other users under normal and reasona foreseeable use. Cosmetics and consumer products, s cally defined by regulations around the world, are exen the requirement of an SDS for the consumer. While this rial is not considered hazardous, this SDS contains val information critical to the safe handling and proper use product for industrial workplace conditions as well as u and unintended exposures such as large spills. This SI should be retained and available for employees and ot users of this product. For specific intended-use guidan- please refer to the information provided on the package instruction sheet.					

# SECTION 2. HAZARDS IDENTIFICATION

Flammable liquids	: Category 3
Eye irritation	: Category 2A

GHS label elements



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Haza	rd pictograms		!		
Signal word		: Warning	•		
Hazard statements			ble liquid and vapour. serious eye irritation.		
Preca	autionary statements	No smoking. P233 Keep cor P240 Ground/b P241 Use expl ment. P242 Use only P243 Take pre	ay from heat/sparks/open flames/hot surfaces. tainer tightly closed. bond container and receiving equipment. osion-proof electrical/ ventilating/ lighting/ equip non-sparking tools. cautionary measures against static discharge. protection/ face protection.		
		for several min to do. Continue P337 + P313 If tion. P370 + P378 Ir	P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and ea e rinsing. Feye irritation persists: Get medical advice/ atte n case of fire: Use dry sand, dry chemical or alc am to extinguish.		
		<b>Storage:</b> P403 + P235 S	tore in a well-ventilated place. Keep cool.		
		<b>Disposal:</b> P501 Dispose posal plant.	of contents/ container to an approved waste dis		

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Ethyl Alcohol	64-17-5	>= 50 - < 70
Isopropyl Alcohol	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.



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			When symptoms advice.	persist or in all cases of doubt seek medical				
If inhaled		:	If inhaled, remove to fresh air. If symptoms persist, call a physician.					
In cas	In case of skin contact		Wash with water and soap as a precaution. Get medical attention if irritation develops and persists.					
In case of eye contact		:	In case of contact, immediately flush eyes with plenty of wate for at least 15 minutes. If easy to do, remove contact lens, if worn. Seek medical advice.					
lf swa	If swallowed		If swallowed, DO NOT induce vomiting. Rinse mouth with water. Obtain medical attention.					
	important symptoms ffects, both acute and ed	:	Causes serious e	ye irritation.				
Protection of first-aiders		:		ers should pay attention to self-protection nmended protective clothing				

## SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide.
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. Cool closed containers exposed to fire with water spray. Flash back possible over considerable distance. May form explosive mixtures in air. Exposure to decomposition products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.



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for fir	efighters	Use personal	protective equipment.
SECTION	6. ACCIDENTAL RELE	ASE MEASURES	
tive e	onal precautions, protec- quipment and emer- y procedures	Ensure adequ Remove all so Evacuate pers Keep people a	protective equipment. ate ventilation. purces of ignition. sonnel to safe areas. away from and upwind of spill/leak. reate slippery conditions.
Envir	onmental precautions	Prevent furthe Retain and dis	o the environment must be avoided. Fr leakage or spillage if safe to do so. Spose of contaminated wash water. es should be advised if significant spillages Itained.
	ods and materials for inment and cleaning up	Soak up with i Suppress (kno spray jet. Keep in suitat Clean contam	tools should be used. nert absorbent material. ock down) gases/vapours/mists with a water ble, closed containers for disposal. inated floors and objects thoroughly while ob- nmental regulations.

# SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	For personal protection see section 8. Keep away from heat. Use with local exhaust ventilation. Avoid contact with eyes.
Conditions for safe storage	:	Take measures to prevent the build up of electrostatic charge. Keep in properly labelled containers. Keep container tightly closed in a dry and well-ventilated place. Store in accordance with the particular national regulations.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Ethyl Alcohol	64-17-5	TWA	1,000 ppm 1,880 mg/m3	CA AB OEL
		STEL	1,000 ppm	CA BC OEL
		TWAEV	1,000 ppm 1,880 mg/m3	CA QC OEL
		STEL	1,000 ppm	ACGIH
Isopropyl Alcohol	67-63-0	TWA	200 ppm	CA AB OEL



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	1		1		492 mg/n	n3	ĺ	
			;	STEL	400 ppm 984 mg/n		CA	A AB OI
			•	TWA	200 ppm		CA	A BC O
				STEL	400 ppm			A BC O
				TWAEV	400 ppm 983 mg/n			A QC O
				STEV	500 ppm 1,230 mg	ı/m3		A QC O
				TWA	200 ppm			CGIH
				STEL	400 ppm		AC	CGIH
<b>Biological occupational</b>	exposure	e lin	nits					
Components	CAS-No.		Control parameters	-	Sam- pling time	Permissi concentr tion		Basis
Isopropyl Alcohol	67-63-0		Acetone	Urine	End of shift at end of work- week	40 mg/l		ACGII BEI
Respiratory protection Hand protection		No p quire		spiratory prote	ctive equip	ment norm	nally	re-
Remarks	: N	No s	pecial prote	ective equipm	ent required	d.		
		: Wear face-shield and protective suit for abnormal processing problems.				essing		
Eye protection			lems.					
Eye protection Skin and body protection	р : М	prob No s		sures necess		d product	is us	ed
	F : N c : C t c E	prob No s corre Choo tratic cific Ensu	special mea ectly. ose body pr on and amo work-place ure that eye	sures necess rotection in rel ount of danger	ary provided lation to its ous substar ems and sa	type, to th nces, and	e co to th	ncen- le spe-

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: clear, colourless, yellow
Odour	: alcohol-like



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	Odour	Threshold	:	No data available	9
	pН		:	6.5 - 8.5 (20 °C)	
	Melting	point/freezing point	:	No data available	)
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	point	:	24 °C	
	Evapor	ation rate	:	No data available	)
	Flamm	ability (solid, gas)	:	Not applicable	
	Upper	explosion limit	:	No data available	
	Lower	explosion limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relativ	e vapour density	:	No data available	
	Density	/	:	0.8743 g/cm3	
	Solubili Wat	ity(ies) ter solubility	:	soluble	
	Partitio octanol	n coefficient: n- l/water	:	Not applicable	
	Auto-ig	nition temperature	:	No data available	)
	Decom	position temperature	:	The substance of	r mixture is not classified self-reactive.
	Viscosi Visc	ty cosity, kinematic	:	3500 - 23000 mn	n2/s (20 °C)
	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	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	:	Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents



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Haza produ	rdous decomposition ucts	: No hazardou	is decomposition products are known.
ECTION	11. TOXICOLOGICA	L INFORMATION	
Inhala Eye c	<b>mation on likely rout</b> ation contact contact	es of exposure	
	<b>e toxicity</b> lassified based on ava	ilable information.	
<u>Com</u>	ponents:		
-	Alcohol: e oral toxicity	: LD50 (Rat): >	• 5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 1 Exposure tim Test atmosph	e: 4 h
lsopr	opyl Alcohol:		
-	e oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 7 Exposure tim Test atmosph	e: 4 h
Acute	e dermal toxicity	: LD50 (Rat): >	5,000 mg/kg
	corrosion/irritation lassified based on ava	ilable information.	
<u>Com</u>	ponents:		
	Alcohol:		

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

## Isopropyl Alcohol:

Species: Rabbit Result: No skin irritation

# Serious eye damage/eye irritation

Causes serious eye irritation.

#### **Components:**

Ethyl Alcohol: Species: Rabbit



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

## **Isopropyl Alcohol:**

Species: Rabbit Result: Irritation to eyes, reversing within 21 days

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

#### **Ethyl Alcohol:**

Test Type: Local lymph node assay (LLNA) Exposure routes: Skin contact Species: Mouse Result: negative

#### Isopropyl Alcohol:

Test Type: Buehler Test Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative

#### Germ cell mutagenicity

Not classified based on available information.

## **Components:**

#### Ethyl Alcohol:

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		
Isopropyl Alcohol:			
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative		
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative		



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### Carcinogenicity

Not classified based on available information.

# Components:

#### Isopropyl Alcohol:

Species: Rat Application Route: inhalation (vapour) Exposure time: 104 weeks Method: OECD Test Guideline 451 Result: negative

## **Reproductive toxicity**

Not classified based on available information.

#### Components:

## **Ethyl Alcohol:**

Effects on fertility :	Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative
Isopropyl Alcohol:	
Effects on fertility :	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative

### STOT - single exposure

Not classified based on available information.

#### Components:

#### **Isopropyl Alcohol:**

Assessment: May cause drowsiness or dizziness.

#### **STOT - repeated exposure**

Not classified based on available information.

## Repeated dose toxicity

## Components:

Ethyl Alcohol: Species: Rat



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

## **Isopropyl Alcohol:**

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

#### Aspiration toxicity

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

#### **Components:**

Ethyl Alcohol:		
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 (Chron- ic 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
Isopropyl Alcohol:		
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 bacteria	:	EC50 (Pseudomonas putida): > 1,050 mg/l Exposure time: 16 h
Persistence and degradabilit	v	

#### Persistence and degradability

#### Components:

#### **Ethyl Alcohol:**



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Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 2	84 %
lsopr	opyl Alcohol:			
Biode	gradability	:	Result: rapidly d	egradable
Bioad	ccumulative potential			
Com	ponents:			
Ethyl	Alcohol:			
	ion coefficient: n- ol/water	:	log Pow: -0.35	
lsopr	opyl Alcohol:			
	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.

# SECTION 14. TRANSPORT INFORMATION

# International Regulation

IATA-DGR		
UN/ID No.	:	UN 1987
Proper shipping name	:	Alcohols, n.o.s. (Ethanol, Propan-2-ol)
Class	:	3
Packing group	:	III
Packing instruction (cargo aircraft)	:	366
Packing instruction (passen- ger aircraft)	:	355
IMDG-Code UN number	:	UN 1987
UN number	:	UN 1987



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Class Packi Labe EmS Marin	ing group ls Code ne pollutant	: ALCOHOLS (Ethanol, P : 3 : III : 3 : F-E, S-D : no	S, N.O.S. Propan-2-ol)
National Regulations TDG UN number Proper shipping name Class Packing group Labels ERG Code Marine pollutant		: UN 1987 : ALCOHOLS (Ethanol, P : 3 : III : 3 : 127 : no	S, N.O.S. Propan-2-ol)

## SECTION 15. REGULATORY INFORMATION

The components of this product are reported in the following inventories:TSCAOn TSCA Inventory		
AICS	On the inventory, or in compliance with the inventory	
DSL	On the inventory, or in compliance with the inventory	
ENCS	On the inventory, or in compliance with the inventory	
ISHL	On the inventory, or in compliance with the inventory	
KECI	On the inventory, or in compliance with the inventory	
PICCS	On the inventory, or in compliance with the inventory	
IECSC	On the inventory, or in compliance with the inventory	
NZIoC	On the inventory, or in compliance with the inventory	

#### **Canadian lists**

No substances are subject to a Significant New Activity Notification.

## **SECTION 16. OTHER INFORMATION**

## Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% re-



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sponse; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships: n.o.s. - Not Otherwise Specified: Nch - Chilean Norm: NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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