

Version 1.1	MSDS Number: 40000005189 Revision Date: 12/22/2015
SECTION 1. IDENTIFICATION	
Product name	: PURELL® PROFESSIONAL SURFACE DISINFECTANT
Manufacturer or supplier's	details
Company name of supplier	: GOJO Industries, Inc.
Address	: One GOJO Plaza, Suite 500 Akron, Ohio, 44311
Telephone	: 1 (330) 255-6000
Emergency telephone number	: 1-800-424-9300 CHEMTREC

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification Flammable liquids	Category 3
GHS Label element Hazard pictograms	
Signal word	Warning
Hazard statements	H226 Flammable liquid and vapour.
Precautionary statements	<ul> <li>Prevention:</li> <li>P210 Keep away from heat/sparks/open flames/hot surfaces No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures against static discharge.</li> <li>Response:</li> <li>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.</li> <li>Storage:</li> <li>P403 + P235 Store in a well-ventilated place. Keep cool.</li> <li>Disposal:</li> <li>P501 Dispose of contents/ container to an approved waste disposal plant.</li> </ul>



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#### Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Ethyl Alcohol	64-17-5	>= 30 - < 50
Isopropyl Alcohol	67-63-0	>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

General advice	n the case of accident or if you feel unwell, seek ice immediately. Vhen symptoms persist or in all cases of doubt se dvice.	
If inhaled	f inhaled, remove to fresh air. f symptoms persist, call a physician.	
In case of skin contact	Vash with water and soap as a precaution. Get medical attention if irritation develops and per	sists.
In case of eye contact	n case of contact, immediately flush eyes with ple or at least 15 minutes. f easy to do, remove contact lens, if worn. Seek medical advice.	enty of water
If swallowed	f swallowed, DO NOT induce vomiting. Rinse mouth with water. Obtain medical attention.	
Protection of first-aiders	First Aid responders should pay attention to self-p and use the recommended protective clothing	rotection

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire- fighting	<ul> <li>Do not use a solid water stream as it may scatter and spread fire.</li> <li>Cool closed containers exposed to fire with water spray.</li> <li>Flash back possible over considerable distance.</li> <li>May form explosive mixtures in air.</li> <li>Exposure to decomposition products may be a hazard to health.</li> </ul>



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Specific extinguishing meth- ods	: Use extinguishing measures that are appropriate to loca cumstances and the surrounding environment. Use water spray to cool unopened containers.	
Further information	: Fire residues and contaminated the disposed of in accordance with the disposed of in accordance with the disposed of in accordance with the disposed of the	<b>a a</b>
Special protective equipment for firefighters	: In the event of fire, wear self-con Use personal protective equipme	

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Material can create slippery conditions.
Environmental precautions	:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Non-sparking tools should be used. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while ob- serving environmental regulations.

#### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: Avoid contact with eyes.
Conditions for safe storage	<ul> <li>No smoking. Take measures to prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place.</li> <li>Store in accordance with the particular national regulations.</li> </ul>

## 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 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1



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		1		S	ΓEL	1,000 ppr	n	AC	GIH
Isopropyl Alcohol		67-	63-0		VA	200 ppm			GIH
					ΓEL	400 ppm			GIH
					VA	400 ppm			OSH RE
						980 mg/n	า3		
				S	Г	500 ppm		NI	OSH RE
						1,225 mg	/m3		
				T١	VA	400 ppm	_	05	SHA Z-1
						980 mg/n	า3		
Biological occupationa	-		1						
Components	CAS-	No.	Control		Biological	Sam-	Permissi		Basis
			paramete	rs	specimen	pling	concentra	a-	
Isopropyl Alcohol	67-63	2 0	Acetone		Urine	time End of	tion 40 mg/l		ACGIH
	07-00	5-0	ACEIONE		Onne	shift at	40 mg/i		BEI
						end of			
						work-			
						week			
Respiratory protection Eye protection		qu : No co W	ired. special me rrectly. ear face-shi	easi	iratory prote ures necessa and protecti	ary provideo	d product i	s us	ed
		problems. : No special measures necessary provided product is used							
Skin and body protection	า	: No	special me	easi	ires necessa	ary provided	d product i	s us	ed
Skin and body protection	1		o special me rrectly.	easi	ires necessa	ary provideo	d product i	s us	ed
Skin and body protection Protective measures	1	CO : Ch tra cif Er loc	rrectly. tion and and c work-plac sure that e cated close	pro nour ce. ye fi to ti	ures necessa tection in rel nt of dangero lushing syste ne working p ot eat, drink	ation to its bus substar ems and sa lace.	type, to the nces, and t	e co to th	ncen- e spe-

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

practice.

the product.

Avoid contact with eyes.

Wash hands before breaks and immediately after handling

Appearance	: liquid
Colour	: colourless
рН	: 12.6 - 12.9, (24 °C)
Initial boiling point and boiling	: 77 °C



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range		
Flash point	: 30.8 °C Method: Pensky-Martens close	d cup
Upper explosion limit	: 19 %(V)	
Lower explosion limit	: 3.3 %(V)	
Density	: 0.952 g/cm3	
Viscosity Viscosity, dynamic	: 2.6 mPa.s	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Possibility of hazardous reac- tions	: Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of Inhalation Skin contact Eye contact	of e	exposure
Acute toxicity Not classified based on availab	le	information.
Components: Ethyl Alcohol: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 124.7 mg/l Exposure time: 4 h Test atmosphere: vapour
Isopropyl Alcohol:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 72.6 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg



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# Skin corrosion/irritation

Not classified based on available information.

# Product:

Result: No skin irritation

## Components:

**Ethyl 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

Not classified based on available information.

## 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) Test species: Mouse Application Route: Ingestion Result: negative
<b>Isopropyl Alcohol:</b> Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES)



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	Result: negative
Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Test species: Mouse Application Route: Intraperitoneal injection Result: negative
Carcinogenicity	
Not classified based on avail	able information.
<u>Components:</u> Isopropyl Alcohol: Species: Rat Application Route: inhalation Exposure time: 104 weeks Method: OECD Test Guidelin Result: negative	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component 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 component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive toxicity Not classified based on availa	able 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
<b>Isopropyl Alcohol:</b> 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



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#### 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 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:**

<u>compenents.</u>	
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	<ul> <li>EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l</li> <li>Exposure time: 72 h</li> <li>Method: OECD Test Guideline 201</li> </ul>
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



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Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 24 h	a)): > 10,000 mg/l
Toxicity to bacteria	:	EC50 (Pseudomonas putida): > 1 Exposure time: 16 h	,050 mg/l
Persistence and degradabili	ty		
<u>Components:</u> Ethyl Alcohol: Biodegradability	:	Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d	
<b>Isopropyl Alcohol:</b> Biodegradability	:	Result: rapidly degradable	
Bioaccumulative potential			
Components: Ethyl Alcohol: Partition coefficient: n- octanol/water	:	log Pow: -0.35	
<b>Isopropyl Alcohol:</b> Partition coefficient: n- octanol/water	:	log Pow: 0.05	
<b>Mobility in soil</b> No data available			
Other adverse effects No data available			
Product:			
Regulation		40 CFR Protection of Environmen Stratospheric Ozone - CAA Section	
Remarks		This product neither contains, nor Class I or Class II ODS as defined Section 602 (40 CFR 82, Subpt. A	by the U.S. Clean Air Act

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Dispose of in accordance with local regulations.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulation



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<b>IATA-DGR</b> UN/ID No. Proper shipping name Class Packing group Packing instruction (cargo aircraft)	: UN 1987 : Alcohols, n.o.s. : 3 : III : 366	
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	: UN 1987 : ALCOHOLS, N.O.S. : 3 : III : 3 : F-E, S-D : no	
National Regulations		
<b>49 CFR</b> UN/ID/NA number Proper shipping name Class Packing group ERG Code Marine pollutant	: UN 1987 : Alcohols, n.o.s. : 3 : III : 127 : no	

#### **SECTION 15. REGULATORY INFORMATION**

#### EPCRA - Emergency Planning and Community Right-to-Know Act

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Potassium Hydroxide	1310-58-3	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### 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	
SARA 302	No chemicals in this material are subject to the reporting re- quirements of SARA Title III, Section 302.	
SARA 313	The following components are subject to reporting levels es- tablished by SARA Title III, Section 313:	
	Isopropyl Alcohol 67-63-0	1.48 %

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).



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Accidental Re The following	elease Prevention (4	chemicals listed under th CFR 68.130, Subpart F) d under the U.S. Clean Ai 9):		
E	thyl Alcohol	64-17-5	30.31 %	
	opropyl Alcohol does not contain any	67-63-0 VOC exemptions listed u	1.48 % nder the U.S. Clear	n Air Act Section
Clean Water	Act			
ble 116.4A:		ces are listed under the U 1310-58-3	.S. CleanWater Act 0.345 %	, Section 311, Ta-
	otassium Hydroxide J Hazardous Chemica	als are listed under the U.S		Section 311, Table
	otassium Hydroxide does not contain any	1310-58-3 toxic pollutants listed unc	0.345 % ler the U.S. Clean V	Vater Act Section
Massachuse	etts Right To Know			
	Ethyl Alcohol		64-17-5	30 - 50 %
	Isopropyl Alcoho		67-63-0	1 - 5 %
Pennsylvani	ia Right To Know			
	Water (Aqua)		7732-18-5	70 - 90 %
	Ethyl Alcohol		64-17-5	30 - 50 %
	Isopropyl Alcohol Potassium Hydro		67-63-0 1310-58-3	1 - 5 % 0.1 - 1 %
New Jersev	Right To Know			
,	Water (Aqua)		7732-18-5	70 - 90 %
	Ethyl Alcohol		64-17-5	30 - 50 %
	Isopropyl Alcoho		67-63-0	1 - 5 %
California P	rop 65	This product does not co of California to cause car productive harm.	-	
The compor	nents of this produc	t are reported in the follo	owing inventories:	:
CH INV	:	On the inventory, or in co	mpliance with the in	nventory
TSCA	:	On TSCA Inventory		
DSL	:	All components of this pro	oduct are on the Ca	anadian DSL.
AICS	:	On the inventory, or in co	mpliance with the in	nventory
NZIoC	:	On the inventory, or in co	mpliance with the in	nventory
ENCS	:	On the inventory, or in co	mpliance with the in	nventory
ISHL	:	On the inventory, or in co	mpliance with the in	nventory
KECI	:	On the inventory, or in co	mpliance with the in	nventory



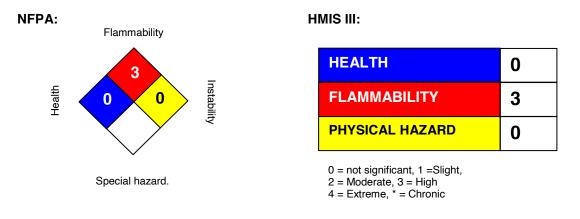
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PICCS	: On the inventory, or in compliance	with the inventory
IECSC	: On the inventory, or in compliance	with the inventory

#### Inventories

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

#### SECTION 16. OTHER INFORMATION

#### **Further information**



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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.