

Version 1.2	SDS Number: 40000005772 Revision Date: 02/24/2021
SECTION 1. IDENTIFICATION	
Productname	: PURELL® VF PLUS™ Hand Sanitizer Gel
Manufacturer or supplier's	details
Company name of supplier Address	 GOJO Industries, Inc. One GOJO Plaza, Suite 500
Telephone	Akron, Ohio 44311 : 1 (330) 255-6000
Emergency telephone number	: CHEMTREC 1-800-424-9300 CHEMTREC +1-703-527-3887: Outside USA & CANADA
Recommended use of the c	chemical and restrictions on use
Recommended use	: Hand Sanitizer
Restrictions on use	: This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions

proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	: Category 2
Eye irritation	: Category 2A
GHS label elements Hazard pictograms	
Signal word	: Danger
Hazard statements	: H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.
Precautionary statements	 Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed.



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		ctrical/ventilating/lighting/ bols. sures against static discharge. æ protection. ES: Rinse cautiously with water contact lenses, if present and eas ersists: Get medical advice/ se dry sand, dry chemical or guish. entilated place. Keep cool.
Other hazards None known.		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (%)
Ethyl Alcohol	64-17-5	>= 70 - < 90
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. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	: If inhaled, remove to fresh air. If symptoms persist, call a physician.
In case of skin contact	: Get medical attention if irritation develops and persists.
In case of eye contact	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Seek medical advice.
If swallowed	 Seek medical advice. If swallowed, DO NOT induce vomiting. Rinse mouth with water. Obtain medical attention.
Most important symptoms and effects, both acute and delayed	: Causes serious eye irritation.
Protection of first-aiders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing

SECTION 5. FIREFIGHTING MEASURES



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Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	 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. Carbon oxides
Hazardous combustion products	: 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.
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.
Special protective equipment for firefighters	: 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	:	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. Suppress (knock down) gases/vapours/mists with a water spray jet. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: For personal protection see section 8. Keep away from heat and flame. Use with local exhaust ventilation.
	Avoid contact with eyes.



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Conditions for safe storage	: Take measures to prevent the buckeep in properly labelled contain Keep containers tightly closed in ventilated place. Store in accordance with the part	ers. a dry, cool and well-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / 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
		STEL	1,000 ppm	ACGIH
Isopropyl Alcohol	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

Components with workplace control parameters

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	
Isopropyl Alcohol	67-63-0	Acetone	Urine	End of shift at end of workwee k	40 mg/l	ACGIH BEI

Personal protective equipment

Respiratory protection	: No personal respiratory protective equipment normally required.
Hand protection	
Remarks	: No special protective equipment required.
Eyeprotection	: Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: No special protective equipment required.
Protective measures	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
	Ensure that eye flushing systems and safety showers are located close to the working place.
Hygiene measures	 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



Version 1.2	SDS Number: 400000005772	Revision Date: 02/24/2021
Appearance Colour Odour Odour Threshold	: liquid : clear, colourless : alcohol-like : No data available	
рН	: 8.8 - 10.3, (20 °C)	
Melting point/freezing point Initial boiling point and boiling	: No data available : 67 °C	
range Flash point	: 16 °C	
Evaporation rate	: No data available	
Flammability (solid, gas)	: Not applicable	
Flammability (liquids)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapour pressure	: No data available	
Relative vapour density	: No data available	
Density	: 0.833 g/cm3	
Solubility(ies) Water solubility	: soluble	
Partition coefficient: n- octanol/water	: Not applicable	
Auto-ignition temperature	: No data available	
Thermal decomposition	: The substance or mixture is no	t classified self-reactive.
Viscosity Viscosity, kinematic	: 1200 - 5000 mm2/s (20 °C)	
Explosive properties	: Not explosive	
Oxidizing properties	: The substance or mixture is no	t classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.



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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Eye contact Skin contact

Acute toxicity

Not classified based on available 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

Skin corrosion/irritation

Not classified based on available information.

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

Causes serious eye irritation.

Components:

Ethyl Alcohol: Species: Rabbit 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



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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
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) Test species: Mouse Application Route: Intraperitoneal injection Result: negative

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

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed



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	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 carcinoge by NTP.
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 development	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative
STOT - single exposur	
Not classified based on Components:	
Isopropyl Alcohol:	e drowsiness or dizziness.
STOT - repeated expose Not classified based on	
Repeated dose toxicity	,
Components: Ethyl Alcohol: Species: Rat NOAEL: 2,400 mg/kg Application Route: Inges Exposure time: 2 y	stion
Isopropyl Alcohol: Species: Rat	

Species: Rat NOAEL: 5000 ppm Application Route: inhalation (vapour)



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Exposure time: 104 w Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecoto	xicity
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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 algæ)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
Toxicity to daphnia and other aquatic invertebrates	: NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d		
(Chronic toxicity) 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 degradabili	ty		
Components: Ethyl Alcohol: Biodegradability	: Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d		
Isopropyl Alcohol: Biodegradability	: Result: rapidly degradable		
Bioaccumulative potential			
<u>Components:</u> Ethyl Alcohol: Partition coefficient: n-	: log Pow: -0.35		



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octanol/water Isopropyl Alcohol: Partition coefficient: n- octanol/water	: log Pow: 0.05		
Mobility in soil No data available			
Other adverse effects No data available			
Product:			
Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances		
Remarks	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose of in accordance with local regulations.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. Proper shipping name	:	UN 1987 Alcohols, n.o.s. (Ethanol, Propan-2-ol)
Class	:	3
Packing group	:	II
Packing instruction (cargo aircraft)	:	364
Packing instruction (passenger aircraft)	:	353
Remarks	:	Complies with Section 3.3.3.1
IMDG-Code		
UN number	:	UN 1987
Proper shipping name	:	ALCOHOLS, N.O.S.
		(Ethanol, Propan-2-ol)
Class	:	3
Packing group	-	II
Labels		3
EmS Code	:	F-E, S-D
Marine pollutant	:	no
Remarks	:	Complies with Chapter 2.3.2.2
National Regulations		



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49 CFR UN/ID/NA number Proper shipping name Class Packing group	: UN 1987 : Alcohols, n.o.s. : 3 : II	
ERG Code	: 127	
Marine pollutant Remarks	: no : Complies with 49 CFR 173.121(b	b)

SECTION 15. REGULATORY INFORMATION

EPCRA - Emerg	ency Planning	and Community	/ Right-to-Know Act
		g aa e ea	

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.		
SARA 313	:	The following components are subject to reporting levels established by SARA Title III, Section 313:		
		Isopropyl Alcohol	67-63-0	4.2525 %

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Ethyl Alcohol	64-17-5	81.4464 %
Isopropyl Alcohol	67-63-0	4.2525 %
This product does not contain any	VOC exemptions	listed under the U.S. Clean Air Act Section
450.		

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop 65	This product does not require a warning label under California Proposition 65.				
The components of this product are reported in the following inventories:					
TSCA :	On TSCA Inventory				
AICS :	On the inventory, or in compliance with the inventory				
DSL :	All components of this product are on the Canadian DSL.				
ENCS :	On the inventory, or in compliance with the inventory				
ISHL :	On the inventory, or in compliance with the inventory				



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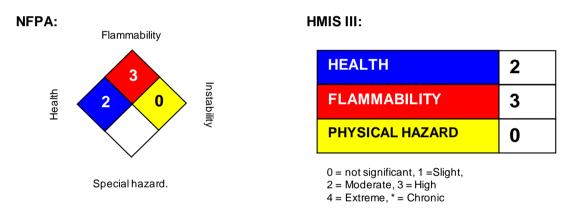
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KECI	: On the inventory, or in compliar	: On the inventory, or in compliance with the inventory		
PICCS	: On the inventory, or in compliar	: On the inventory, or in compliance with the inventory		
IECSC	: On the inventory, or in compliar	nce with the inventory		
NZIoC	: On the inventory, or in compliar	nce with the inventory		

Inventories

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