

Version 1.0

SDS Number: 400000000410

Revision Date: 05/03/2017

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### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name

: PURELL® Advanced Hand Rub

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

Recommended use of the 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 acts headling. contains valuable information critical to the safe handling and 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.

Prepared by

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Physical state	liquid	
Colour	clear, colourless, yellow	_
Odour	alcohol-like	

**GHS Classification** 

Flammable liquids

: Category 3

Eye irritation

: Category 2A

**GHS** label elements

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Hazard pictograms



Signal word

: Warning

Hazard statements

H226 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.

P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/

attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage: P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Potential Health Effects

Primary Routes of Entry

: Inhalation

Eye contact Skin contact

Aggravated Medical Condition

: None known.

Carcinogenicity:

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.

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

#### Hazardous components

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



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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

If inhaled

: If inhaled, remove to fresh air. If symptoms persist, call a physician.

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 water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Seek medical advice.

If swallowed

: 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**

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

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.



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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.

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 parameters / Permissible	Basis
Eggan Linear		cxposure)	concentration	



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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 492 mg/m3	CA AB OEL
		STEL	400 ppm 984 mg/m3	CA AB OEL
		TWA	200 ppm	CA BC OEL
		STEL	400 ppm	CA BC OEL
		TWAEV	400 ppm 983 mg/m3	CA QC OEL
		STEV	500 ppm 1,230 mg/m3	CA QC OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH

Biological occupational exposure limits

	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio	Basis
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.

Eye protection

: Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection

: No special measures necessary provided product is used correctly.

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

Appearance

: liquid

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Colour

: clear, colourless, yellow

Odour

: alcohol-like

Odour Threshold

: No data available

pΗ

: 6.5 - 8.5, (20 °C)

Initial boiling point and boiling

: No data available

range

: No data available

Flash point

: 24 °C

Evaporation rate

: No data available

Flammability (solid, gas)

Melting point/freezing point

: Not applicable

Upper explosion limit

: No data available

Lower explosion limit

: No data available

Vapour pressure

: No data available

Relative vapour density

: No data available

Density

: 0.8743 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 not classified self-reactive.

Viscosity

Viscosity, kinematic

: 3500 - 23000 mm2/s (20 °C)

Explosive properties

: Not explosive

Oxidizing 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

: Vapours may form explosive mixture with air.



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reactions

Conditions to avoid

: Heat, flames and sparks.

Incompatible materials

: Strong oxidizing agents

Hazardous decomposition

products

: No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

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



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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)

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)



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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 development

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 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.



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### 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

(Chronic 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

Isopropyi 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 degradability

#### Components:

Ethyl Alcohol:

Biodegradability

Result: Readily biodegradable.

Biodegradation: 84 % Exposure time: 20 d

Isopropyl Alcohol:

Biodegradability

: Result: rapidly degradable

#### **Bioaccumulative potential**

#### Components:

Ethyl Alcohol:

Partition coefficient: n-

octanol/water

: log Pow: -0.35

Isopropyi Alcohol:

Partition coefficient: n-

: log Pow: 0.05

octanol/water

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Mobility in soil

No data available

Other adverse effects

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

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.

Proper shipping name

: UN 1987

: Alcohols, n.o.s.

(Ethanol, Propan-2-ol)

Class Packing group

: 3 : 111

Packing instruction (cargo

: 366

aircraft)

: 355

Packing instruction (passenger aircraft)

IMDG-Code

**UN** number

: UN 1987

Proper shipping name

: ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)

Class

3

Packing group

: 111

Labels EmS Code

F-E, S-D

Marine pollutant National Regulations

no

TDG

**UN number** 

**UN 1987** 

Proper shipping name

ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)

Class

Packing group

Ш

Labels

3

**ERG Code** 

127

Marine pollutant

no

### SECTION 15. REGULATORY INFORMATION



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WHMIS Classification

: B2: Flammable liquid

D2B: Toxic Material Causing Other Toxic Effects

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The components of this product are reported in the following inventories:

TSCA

: On TSCA Inventory

AICS

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: 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

#### 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**

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.