

**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 40000005395

Revision Date: 08/29/2017

**SECTION 1. IDENTIFICATION**

Product name : PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam

**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 : Antibacterial Soap

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 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**

Eye irritation : Category 2A

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.


**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 40000005395

Revision Date: 08/29/2017

Precautionary statements : **Prevention:**  
P280 Wear eye protection/ face protection.  
**Response:**  
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.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**
**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
Glycerin	56-81-5	>= 1 - < 5
Cocamidopropyl Betaine	61789-40-0	>= 1 - < 5
Benzalkonium Chloride	68391-01-5	>= 0.25 - < 1

**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 : 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**



## PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam

Version 1.1

SDS Number: 40000005395

Revision Date: 08/29/2017

- |   |   |
|---|---|
| Suitable extinguishing media                  | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  |
| Unsuitable extinguishing media                | : None known.   |
| Hazardous combustion products                 | : Carbon oxides<br>Nitrogen oxides (NOx)  |
| Specific extinguishing methods                | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.   |
| Further information                           | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>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.<br>Use personal protective equipment.  |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Ensure adequate ventilation.<br>Keep people away from and upwind of spill/leak.<br>Material can create slippery conditions.   |
| Environmental precautions   | : Discharge into the environment must be avoided.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g. by containment or oil barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained.  |
| Methods and materials for containment and cleaning up               | : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).<br>Keep in suitable, closed containers for disposal.<br>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.<br>Do not swallow.<br>Avoid contact with eyes.<br>Keep container closed when not in use. |
| Conditions for safe storage | : Keep in properly labelled containers.<br>Keep tightly closed in a dry, cool and well-ventilated place.                          |


**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 40000005395

Revision Date: 08/29/2017

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 concentration	Basis
Glycerin	56-81-5	TWA (mist, respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (mist, total dust)	15 mg/m <sup>3</sup>	OSHA Z-1

**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.
- Eye protection : No special measures necessary provided product is used correctly.  
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
- Colour : clear, colourless, yellow
- Odour : citrus, floral
- Odour Threshold : No data available
- pH : 5.0 - 7.0, (20 °C)
- Melting point/freezing point : No data available

**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 40000005395

Revision Date: 08/29/2017

Boiling point/boiling range	: 99 °C
Flash point	: > 100 °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	: 1.007 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: not determined
Thermal decomposition	: The substance or mixture is not classified self-reactive.
Viscosity	
Viscosity, kinematic	: 75 mm <sup>2</sup> /s (20 °C)
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: Stable under recommended storage conditions. Not classified as a reactivity hazard.
Chemical stability	: No decomposition if stored and applied as directed. Stable under normal conditions.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 400000005395

Revision Date: 08/29/2017

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Inhalation  
Eye contact  
Skin contact

**Acute toxicity**

Not classified based on available information.

**Components:****Glycerin:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

**Cocamidopropyl Betaine:**

Acute oral toxicity : LD50 : > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

**Benzalkonium Chloride:**

Acute oral toxicity : LD50 (Rat): 850 mg/kg

Acute dermal toxicity : LD50 (Rat): 2,300 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Glycerin:**

Result: No skin irritation

**Cocamidopropyl Betaine:**

Result: Skin irritation

**Benzalkonium Chloride:**

Species: Rabbit  
Result: Corrosive after 3 minutes to 1 hour of exposure  
Remarks: Based on data from similar materials

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Result: Irritating to eyes.

**Components:**

**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 40000005395

Revision Date: 08/29/2017

**Glycerin:**

Result: No eye irritation

**Cocamidopropyl Betaine:**

Result: Eye irritation

Remarks: Severe eye irritation

**Benzalkonium Chloride:**

Species: Rabbit

Result: Irreversible effects on the eye

Remarks: Based on data from similar materials

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:****Cocamidopropyl Betaine:**

Test Type: Maximisation Test (GPMT)

Exposure routes: Skin contact

Species: Guinea pig

Result: negative

Remarks: Based on data from similar materials

**Benzalkonium Chloride:**

Test Type: Buehler Test

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Remarks: Based on data from similar materials

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****Glycerin:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

**Cocamidopropyl Betaine:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Test species: Mouse  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 40000005395

Revision Date: 08/29/2017

**Benzalkonium Chloride:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Test species: Mouse  
Application Route: Ingestion  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

**Carcinogenicity**

Not classified based on available information.

**Components:****Glycerin:**

Species: Rat  
Application Route: Ingestion  
Exposure time: 2 Years  
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 available information.

**Components:****Glycerin:**

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: Rabbit  
Application Route: Ingestion  
Result: negative

**Cocamidopropyl Betaine:**

Effects on foetal : Test Type: Embryo-foetal development



**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 400000005395

Revision Date: 08/29/2017

development

Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative  
Remarks: Based on data from similar materials

**Benzalkonium Chloride:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal  
development

: Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Repeated dose toxicity****Components:****Glycerin:**

Species: Rat  
NOAEL: 167 mg/m<sup>3</sup>  
LOAEL: 660 mg/m<sup>3</sup>  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 13 w  
Symptoms: Local irritation

**Cocamidopropyl Betaine:**

Species: Rat  
NOAEL: 250 mg/kg  
Application Route: Ingestion  
Exposure time: 90 d  
Method: OECD Test Guideline 408  
Remarks: Based on data from similar materials

**Benzalkonium Chloride:**

Species: Mouse  
NOAEL: 192 mg/kg  
Application Route: Ingestion  
Exposure time: 94 d  
Remarks: Based on data from similar materials

**Aspiration toxicity**

Not classified based on available information.


**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 40000005395

Revision Date: 08/29/2017

**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity**
**Components:**
**Glycerin:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,955 mg/l  
Exposure time: 48 h
- Toxicity to bacteria : NOEC (Pseudomonas putida): > 10,000 mg/l  
Exposure time: 16 h

**Cocamidopropyl Betaine:**

- Toxicity to fish : LC50: > 1 - 10 mg/l  
Exposure time: 96 h  
Method: ISO 7346/2  
Remarks: Based on data from similar materials
- Toxicity to bacteria : EC50: > 100 mg/l  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

**Benzalkonium Chloride:**

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.515 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.016 mg/l  
Exposure time: 48 h  
Method: Directive 67/548/EEC, Annex V, C.2.  
Remarks: Based on data from similar materials
- Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 0.049 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- EC10 (Selenastrum capricornutum (green algae)): 0.009 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.0322 mg/l  
Exposure time: 34 d  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): 0.0125 mg/l  
Exposure time: 21 d

**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 40000005395

Revision Date: 08/29/2017

(Chronic toxicity)

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

M-Factor (Chronic aquatic toxicity) : 1

**Persistence and degradability****Components:****Glycerin:**Biodegradability : Result: Readily biodegradable.  
Biodegradation: 94 %  
Exposure time: 1 d**Cocamidopropyl Betaine:**Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301  
Remarks: Based on data from similar materials**Benzalkonium Chloride:**Biodegradability : Result: Readily biodegradable.  
Biodegradation: 72 %  
Exposure time: 28 d**Bioaccumulative potential****Components:****Glycerin:**

Partition coefficient: n-octanol/water : log Pow: -1.76

**Benzalkonium Chloride:**Partition coefficient: n-octanol/water : log Pow: 2.75  
Remarks: Based on data from similar materials**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).

**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 40000005395

Revision Date: 08/29/2017

**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**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**National Regulations****49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****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** : Acute Health Hazard**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**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 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Glycerin 56-81-5 2 %

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.


**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 40000005395

Revision Date: 08/29/2017

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

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

**Massachusetts Right To Know**

Glycerin	56-81-5	1 - 5 %
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**Pennsylvania Right To Know**

Water (Aqua)	7732-18-5	90 - 100 %
Glycerin	56-81-5	1 - 5 %
Phenoxyethanol	122-99-6	0.1 - 1 %

**New Jersey Right To Know**

Water (Aqua)	7732-18-5	90 - 100 %
Propanediol	504-63-2	1 - 5 %
Glycerin	56-81-5	1 - 5 %
Cocamidopropyl Betaine	61789-40-0	1 - 5 %
PEG-80 Sorbitan Laurate	9005-64-5	1 - 5 %

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

TSCA	: On the inventory, or in compliance with the 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

**Inventories**

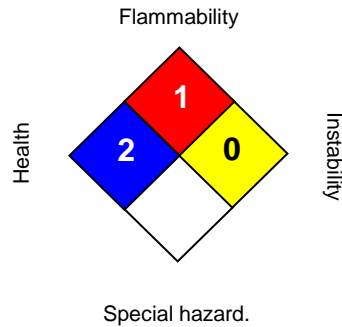
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**PURELL® Professional HEALTHY SOAP™ 0.5% BAK Antimicrobial Foam**

Version 1.1

SDS Number: 40000005395

Revision Date: 08/29/2017

**SECTION 16. OTHER INFORMATION**
**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

Revision Date : 08/29/2017

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.