

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 Nitrogen oxides (NOx) |
| 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. 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. Prevent spreading over a wide area (e.g. by containment or oil barriers). 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 | : 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). 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. Do not swallow. Avoid contact with eyes. Keep container closed when not in use. |
| Conditions for safe storage | : Keep in properly labelled containers. 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 ³ | OSHA Z-1 |
| | | TWA (mist, total dust) | 15 mg/m ³ | 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 ³ |
| 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 ² /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: 40000005395

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/m³
LOAEL: 660 mg/m³
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: 400000005395

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: 400000005395

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 % |
|----------|---------|---------|

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

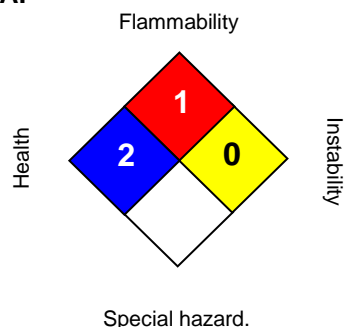
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

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:

| | |
|------------------------|----------|
| HEALTH | 2 |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |

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.