

**PROVON® Antimicrobial Foam Handwash with 2% CHG**

Version 1.0

MSDS Number: 400000005227

Revision Date: 07/08/2016

**SECTION 1. IDENTIFICATION**

Product name : PROVON® Antimicrobial Foam Handwash with 2% CHG

**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 :  
Pharmaceutical**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Skin irritation : Category 2

Serious eye damage : Category 1

Carcinogenicity : Category 2

**GHS Label element**Hazard pictograms :  
Two GHS hazard pictograms are shown side-by-side. The first is a red diamond with a black silhouette of a person with a starburst on their chest, representing Health Hazard (H315). The second is a red diamond with a black silhouette of a hand being washed, representing Serious Eye Damage (H318).

Signal word : Danger

Hazard statements : H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H351 Suspected of causing cancer.Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
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.


**PROVON® Antimicrobial Foam Handwash with 2% CHG**

Version 1.0

MSDS Number: 400000005227

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P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
**Storage:**  
 P405 Store locked up.  
**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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

Substance / Mixture : Mixture

**Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
Isopropyl Alcohol	67-63-0	>= 1 - < 5
Proprietary Component 1	Not Assigned	>= 1 - < 5
Proprietary Component 2	Not Assigned	>= 1 - < 5
Chlorhexidine Digluconate	18472-51-0	>= 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 : Wash off with soap and water.  
 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 : Do NOT induce vomiting.  
 Rinse mouth with water.  
 Obtain medical attention.

Most important symptoms and effects, both acute and delayed : Causes serious eye damage.  
 Causes skin irritation.  
 May be harmful if swallowed.

**SECTION 5. FIREFIGHTING MEASURES**


**PROVON® Antimicrobial Foam Handwash with 2% CHG**

Version 1.0

MSDS Number: 40000005227

Revision Date: 07/08/2016

- 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.  
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.  
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.  
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.  
Avoid contact with eyes.  
Keep container closed when not in use.
- Conditions for safe storage : Keep in properly labelled containers.  
Keep container tightly closed in a dry and well-ventilated place.  
Store in accordance with the particular national regulations.

**PROVON® Antimicrobial Foam Handwash with 2% CHG**

Version 1.0

MSDS Number: 40000005227

Revision Date: 07/08/2016

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Isopropyl Alcohol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m <sup>3</sup>	NIOSH REL
		ST	500 ppm 1,225 mg/m <sup>3</sup>	NIOSH REL
		TWA	400 ppm 980 mg/m <sup>3</sup>	OSHA Z-1

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Isopropyl Alcohol	67-63-0	Acetone	Urine	End of shift at end of work-week	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 : No special protective equipment required.  
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**

- Appearance : liquid
- Colour : colourless

**PROVON® Antimicrobial Foam Handwash with 2% CHG**

Version 1.0

MSDS Number: 400000005227

Revision Date: 07/08/2016

Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: 97 °C
Flash point	: > 93.3 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: 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	: 1.06 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: soluble
Auto-ignition temperature	: not determined
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No hazards to be specially mentioned.
Chemical stability	: Stable under normal conditions.
Conditions to avoid	: Heat.
Incompatible materials	: None known.
Hazardous decomposition products	: Ammonia Hydrogen chloride gas Nitrogen oxides (NO <sub>x</sub> ) Carbon oxides

**PROVON® Antimicrobial Foam Handwash with 2% CHG**

Version 1.0

MSDS Number: 400000005227

Revision Date: 07/08/2016

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

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

**Components:****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

**Chlorhexidine Digluconate:**

Acute oral toxicity : LD50 Oral (Rat): 2,000 mg/kg  
Acute toxicity estimate : 500 mg/kg

Acute dermal toxicity : Median lethal dose (Rabbit): 2,000 mg/kg

**Skin corrosion/irritation**

Causes skin irritation.

**Components:****Isopropyl Alcohol:**

Species: Rabbit  
Result: No skin irritation

**Proprietary Component 1:**

Assessment: Causes burns.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Components:****Isopropyl Alcohol:**

Species: Rabbit  
Result: Irritation to eyes, reversing within 21 days

**Chlorhexidine Digluconate:**

Assessment: Risk of serious damage to eyes.  
Remarks: Risk of serious damage to eyes., Severe eye irritation


**PROVON® Antimicrobial Foam Handwash with 2% CHG**

Version 1.0

MSDS Number: 400000005227

Revision Date: 07/08/2016

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:**
**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:**
**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**

Suspected of causing cancer.

**Components:**
**Isopropyl Alcohol:**

Species: Rat

Application Route: inhalation (vapour)

Exposure time: 104 weeks

Method: OECD Test Guideline 451

Result: negative

**IARC** Group 2B: Possibly carcinogenic to humans

Proprietary Component 2

**ACGIH** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**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.

**PROVON® Antimicrobial Foam Handwash with 2% CHG**

Version 1.0

MSDS Number: 400000005227

Revision Date: 07/08/2016

**Reproductive toxicity**

Not classified based on available information.

**Components:****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:****Isopropyl Alcohol:**

Species: Rat  
NOAEL: 5000 ppm  
Application Route: inhalation (vapour)  
Exposure time: 104 w  
Method: OECD Test Guideline 413

**Proprietary Component 1:**

Repeated dose toxicity - Assessment : Causes severe skin burns and eye damage.

**Chlorhexidine Digluconate:**

Repeated dose toxicity - Assessment : Causes serious eye damage.

**Aspiration toxicity**

Not classified based on available information.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Isopropyl Alcohol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l  
Exposure time: 96 h




**PROVON® Antimicrobial Foam Handwash with 2% CHG**

Version 1.0

MSDS Number: 400000005227

Revision Date: 07/08/2016

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

**Proprietary Component 2:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 3.6 mg/l  
Exposure time: 96 h  
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.2 mg/l  
Exposure time: 24 h

**Chlorhexidine Digluconate:**

Toxicity to fish : (Fish): 2.08 mg/l

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 0.087 mg/l

Toxicity to algae : (Chlorella pyrenoidosa (aglae)): 0.081 mg/l

Ecotoxicology Assessment  
Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Persistence and degradability**
Components:
**Isopropyl Alcohol:**

Biodegradability : Result: rapidly degradable

**Chlorhexidine Digluconate:**

Biodegradability : Result: Not readily biodegradable.

**Bioaccumulative potential**
Components:
**Isopropyl Alcohol:**

Partition coefficient: n-octanol/water : log Pow: 0.05

**Chlorhexidine Digluconate:**

Bioaccumulation : Bioconcentration factor (BCF): 42

**Mobility in soil**

No data available

**Other adverse effects**

No data available

Product:

Regulation

40 CFR Protection of Environment; Part 82 Protection of


**PROVON® Antimicrobial Foam Handwash with 2% CHG**

Version 1.0

MSDS Number: 400000005227

Revision Date: 07/08/2016

Remarks

Stratospheric Ozone - CAA Section 602 Class I Substances

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**

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** : Chronic Health 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	4.9999 %
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**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).


**PROVON® Antimicrobial Foam Handwash with 2% CHG**

Version 1.0

MSDS Number: 400000005227

Revision Date: 07/08/2016

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 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

Isopropyl Alcohol	67-63-0	4.9999 %
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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 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**

Isopropyl Alcohol	67-63-0	1 - 5 %
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**Pennsylvania Right To Know**

Water (Aqua)	7732-18-5	90 - 100 %
Isopropyl Alcohol	67-63-0	1 - 5 %
Proprietary Component 1	Not Assigned	1 - 5 %
Proprietary Component 2	Not Assigned	1 - 5 %
Proprietary Component 3	Not Assigned	1 - 5 %
Proprietary Component 4	Not Assigned	1 - 5 %

**New Jersey Right To Know**

Water (Aqua)	7732-18-5	90 - 100 %
Isopropyl Alcohol	67-63-0	1 - 5 %
Proprietary Component 1	Not Assigned	1 - 5 %
Proprietary Component 2	Not Assigned	1 - 5 %
Proprietary Component 3	Not Assigned	1 - 5 %
Proprietary Component 4	Not Assigned	1 - 5 %

**California Prop 65**

WARNING! This product contains a chemical known to the State of California to cause cancer.

Proprietary Component 2	Not Assigned
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**The components of this product are reported in the following inventories:**

CH INV	: On the inventory, or in compliance with the inventory
TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL.
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: 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

**PROVON® Antimicrobial Foam Handwash with 2% CHG**

Version 1.0

MSDS Number: 400000005227

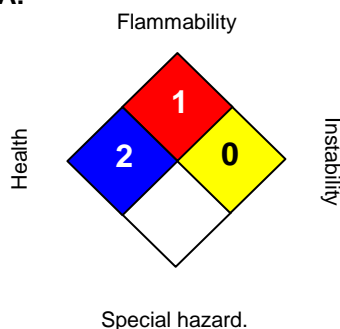
Revision Date: 07/08/2016

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**
**NFPA:**

**HMIS III:**

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

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

Revision Date : 07/08/2016

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.