

Issue Date 10-17-2018

Revision Date 3-01-2020

Version 3

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY**
**1.1. Product identifier**

Product name **BIOGLOVE - PBG HOSPITAL GRADE DISINFECTANT**

Product number **PBG-AP**

UN/ID No **NA**

Product Code **Smart green PBG-AP**

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Recommended Use: Hard surface disinfectant hospital grade.**
**1.3. Details of the supplier of the safety data sheet Supplier Address:**

BioGlove / SmartGreen  
 30 Gould ST.  
 Sheridan WY 82801

**1.4. Emergency telephone number dial 911**

Non-Emergency dial 877-BioGlove (246-4568)

**SECTION 2: HAZARDS IDENTIFICATION**
**2.1. Classification of the substance or mixture**
**US Hazard Classification (29CFR 1910.1200-2012):**

Flammable Liquid and Vapor: Category 3	H226
Acute Toxicity-Oral: Category III	H302
Acute Toxicity-Dermal: Category III	H313
Acute Toxicity- Air Inhalation: Category IV	H332
Acute Toxicity-Skin Corrosion/Irritation: Non-irritant	
Acute Toxicity-Serious Eye Damage/Irritation: Category III	H320
Acute Toxicity-Skin/Dermal Sensitization: Non-irritant	

**GHS Hazard Classification**

Acute Toxicity-Oral: Category 5

Acute Toxicity-Dermal: Category 5

Acute Toxicity-Air Inhalation: Category 4

Acute Toxicity-Skin Corrosion/Irritation: Non-irritant

Acute Toxicity-Serious Eye Damage/Irritation: Category 2B

Acute Toxicity-Skin/Dermal Sensitization: Non-sensitization

**2.2. Hazard Pictograms**


**Signal Word: WARNING!**

**FIRST  
CALL**  
PPE

Where Safety Comes First!  
[www.firstcallppe.com](http://www.firstcallppe.com)

**Hazard Statements**

H226	Flammable liquid and vapor
H302	May be harmful if swallowed
H313	May be harmful if in contact with skin
H320	Causes eye irritation
H332	Harmful if inhaled

**Precautionary Statements**

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P233	Keep container tightly closed
P235	Keep cool
P240	Ground/bond container and receiving equipment
P241	Use explosion proof electrical/ventilation/lighting
P242	Use only non-sparking tools
P243	Take precaution measures against static discharge
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Do not eat, drink or smoke when using this product
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301	Call a Poison Center or doctor/ physician if you feel unwell
P303	IF ON SKIN (or hair): Take off immediately contaminated clothing. Rinse skin with water/shower
P312	Call a Poison Center or doctor/ physician if you feel unwell
P330	Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
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 or attention
P405	Store locked up
P501	Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Prevention: Wear protective eyewear (goggles, face shield or safety glasses)

Response: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse

## 2.3. Other hazards

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

<b>3.2. Mixtures</b>	<b>CAS #</b>
Demineralized Water	7732-18-5
2-Propanol	67-63-0
Polyhexamethylene biguanide hcl	32289-58-0
1-Octadecanamimium N,N dimethyl 3- trimethoxysilyl propyl chloride	27668-52-6
Alkyl(C14-50%, C12-40%, C16-10%) Dimethyl Benzyl ammonium chloride	68424-85-1
Octadecyldimethyl ammonium chloride	32426-11-2
Diocetyl dimethyl ammonium chloride	5538-94-3
Didecyl dimethyl ammonium chloride	7173-51-5
Ethylene glycol monophenol ether	122-99-6
Polyethylene Tridecyl ether	24938-91-8
Ethanol	64-17-5
Laurylamine	124-22-1
EDTA Sodium salt	13235-36-4
Citric acid	77-92-9

**SECTION 4: FIRST AID MEASURES**

## 4.1. Description of first aid measures

**Inhalation**

Remove victim immediately from source of exposure. Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice

**Ingestion**

Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

**Skin contact.**

Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice

**Eye contact**

Immediately flush with plenty of water for up to 15 minutes. Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice

## 4.2. Most important symptoms and effects, both acute and delayed

## 4.3. Indication of any immediate medical attention and special treatment needed.

**SECTION 5: FIREFIGHTING MEASURES**

## 5.1. Extinguishing media

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog.

## 5.2. Special hazards arising from the substance or mixture

Specific hazards

None.

5.3. Advice for firefighters

Protective equipment for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1. Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet.

6.2. Environmental precautions

This Disinfectant is slightly toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA

6.3. Methods and material for containment and cleaning up

Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

**SECTION 7: STORAGE AND HANDLING**

Advise on safe handling: Avoid contact with skin and eyes.

Provide sufficient air exchange and/ or exhaust in work rooms

Conduct for safe storage: Keep container tightly closed

Recommended storage temperature: 18.3-35C above 32F Do not freeze

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1. Control parameters Ingredient Comments

No exposure limits noted for ingredient(s)

8.2. Exposure controls

**Protective equipment**

**Engineering measures**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

**Respiratory equipment**

None.

**Hand protection**

Gloves

**Eye protection**

Eye glasses with safety shields

**Other Protection**

Wear appropriate long sleeve clothing.

**Hygiene measures**

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear to cloudy (when cold)
Odor	Sweet
Odor Threshold	Not determined
pH	3.5-7.0
Melting point/freezing point	0°C/0°C
Boiling point/boiling range	NA °C
Flash point close cup	49.6 °C
Evaporation rate	NA
Flammability (solid, gas)	N/A
Flammability Limits in Air	
Upper flammability limits	N/A
Lower flammability limit	N/A
Vapor pressure	TBD mmHg
Vapor density	TBD gm/m <sup>3</sup>
Specific Gravity @ 23.5C	0.95-1.02
Water solubility	Soluble in water
Solubility in other solvents	Not determined
Partition coefficient	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined

#### Other Information

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No specific reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

Not available.

### 10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid freezing since water based. (will thaw)

### 10.5. Incompatible materials

Not available

### 10.6. Hazardous decomposition product

None.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute Oral LD50

LD50>2000mg/kg <5000mg/kg Category 5

#### Acute Dermal LD50

Ld50>2000mg/kg <5000mg/kg

#### Skin contact

Non-irritant

**BioGlove - PBG™ Hospital Grade Disinfectant**  
**Acute Eye Irritation**  
**Reversible eye irritation Category 2B**

March 1<sup>st</sup> 2020

**Acute Inhalation Toxicity**  
**LC50 <4.8mg/L Category 4**

**Skin Sensitization contact**  
**Non-sensitization**

**Germ Cell Mutagenicity**  
Data is not available at this time

**Carcinogenicity**  
Data is not available at this time. Not expected to be carcinogenic.

**Reproductive Toxicity**  
Data is not available at this time. Not expected to have reproductive toxicity.

**STOT-single exposure**  
Unclassified

**STOT-repeated exposure**  
Unclassified

**Aspiration Hazard**  
Data is not available at this time

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

### 12.1. Toxicity

**Acute Toxicity Daphnia magna OECD 202**

**Immobility**

Data is not available at this time

**Acute Toxicity Danio Rerio OECD 203**

Data is not available at this time

**Fresh water Algae Growth Desmodesmus subspicatus at 72 hours OECD 201**

Data is not available at this time

### 12.2. Persistence and degradability

Degradability

Data is not available at this time

### 12.3. Bioaccumulative potential

Bioaccumulative potential

Data is not available at this time

### 12.4. Mobility in soil

Mobility: Data is not available at this time

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances

### 12.6. Other adverse effects

Not applicable.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**General information**

Factory Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Do not puncture or incinerate even when empty This Disinfectant is slightly toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA..

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority require

**SECTION 14: TRANSPORTATION INFORMATION**

DOT

Proper shipping name	Combustible liquid, n.o.s. contains Isopropyl alcohol
UN/ID No	NA1993
Hazard Class	Combustible liquid
Packing Group	III
Special Provisions	Exemption 173.150

TDG

UN/ID No  
 Proper shipping name  
 Hazard Class  
 Packing Group  
 Special Provisions

IATA

UN/ID No  
 Proper shipping name  
 Hazard Class  
 Subsidiary hazard class  
 Packing Group  
 ERG Code

IMDG

UN/ID No  
 Proper shipping name  
 Hazard Class  
 Subsidiary hazard class  
 Packing Group III

**SECTION 15: REGULATORY INFORMATION**

15.1. Safety, health and environmental regulations/legislation specific for the substance or Mixture

**International Inventories**

<b>TSCA</b>	Listed
<b>DSL</b>	Listed
<b>NDSL</b>	Not Listed
<b>EINECS</b>	Listed
<b>ELINCS</b>	Not Listed
<b>ENCS</b>	
<b>IECSC</b>	
<b>KECL</b>	
<b>PICCS</b>	
<b>AICS</b>	

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**US Federal Regulations SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 37.

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Not Listed			

**US State Regulations**

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Not listed	Not listed	Not listed	Not listed

**U.S. EPA Label Information**

**SECTION 16: OTHER INFORMATION**

GHS Codes

Hazard Statements In Full

USA National Fire Prevention and OSHA

<b><u>NFPA</u></b>	<b>Health hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	2	2	0	
<b><u>HMIS</u></b>	<b>Health hazards</b>	<b>Flammability</b>	<b>Physical hazards</b>	<b>Personal protection</b>



**BioGlove - PBG™ Hospital Grade Disinfectant**

**Issue Date**            October 17, 2017  
**Revision Date**        March 1, 2020  
**Revision Note**        Data Data on physical properties

**Disclaimer**

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, this product is manufactured by smart green pbg exclusively for bioglove holdings unless specified in the text.

**End of Safety Data Sheet**