

Issue Date September 1 2016

Revision Date: June 2018

Version 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product identifier

Product name **Germfree24® Hand Sanitizer "Foam"**

Product number G-1005

UN/ID No NA

Product Code **G-1005**

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended Use: **Hand Sanitizer foam used to decrease bacteria on hands & skin recommended for repeated external use.**

1.3. Details of the supplier of the safety data sheet Supplier Address:

Smyth Consultants
105 Indian Wells Circle
Lexington NC 27295

1.4. Emergency telephone number

Emergency Telephone: +1 (888) 332-8332 (North America)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Not Hazardous

2.2. Label elements

None

Signal Word:

Hazard Statements

None

Precautionary Statements/Response

None.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. CHEMICAL NAME	CAS#	WT%
Benzalkonium Chloride USP ACTIVE	8001-54-5	0.13%

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Remove victim immediately from source of exposure.

Ingestion

None

Skin contact

None.

Eye contact

Immediately flush with plenty of water for up to 15 minutes.

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

Inhalation.

None.

Ingestion

None.

Skin contact

None

Eye contact

None.

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: HANDLING AND STORAGE

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

None

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: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling,

Keep from Freezing above 0C /32F

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a well-ventilated place. Keep from freezing and direct sunlight.

Storage Class

Miscellaneous hazardous material storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

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

None.

Eye protection

None

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
Odor	None
Odor Threshold	Not determined
pH	4.0-7.0
Melting point/freezing point	0°C/ 0C
Boiling point/boiling range	100 °C
Flash point	100 °C
Evaporation rate	Similar to water
Flammability (solid, gas)	N/A
Flammability Limits in Air	
Upper flammability limits	N/A
Lower flammability limit	N/A
Vapor pressure	23 mmHg
Vapor density	23gm/m ³
Specific Gravity	1.00-1.20
Water solubility	Soluble in water
Solubility in other solvents	Not determined
Partition coefficient	Not determined
Autoignition temperature	Not flammable
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**

LD 50 > 2000 -5000 mg/kg body weight

Classified under Category 5 –Non Classified, as per Global Harmonized System for Classification and Labeling of Chemicals (UN GHS 2013) and OECD Harmonized Integrated Classification for Human Health and Environmental Hazards of Chemicals Substances and Mixtures (14th Aug 2001).

Acute Dermal LD50

LD 50 > 2000-5000 mg/kg body weight

Classified under Category 5 or Non Classified as per Global Harmonized System for Classification and Labeling of Chemicals (UN GHS 2013) and OECD Harmonized Integrated Classification for Human Health and Environmental Hazards of Chemicals Substances and Mixtures (14th Aug 2001).

Skin contact

Negative Findings base on Global Harmonized System for Classification and Labeling of Chemicals and OECD Harmonized Integrated Classification System for Human Health and Environmental Hazards of Chemical Substances and Mixtures (14th Aug 2001)

Acute Eye Irritation

Not irritating to eyes as per Global Harmonized System for Classification and Labeling of Chemicals (UN GHS 2013) and OECD Harmonized Integrated Classification for Human Health and Environmental Hazards of Chemicals Substances and Mixtures (14th Aug 2001).

Acute Inhalation Toxicity

LC50: > 1.75 mg/L and is classified as "Unclassified" based on Globally Harmonized System for Classification and Labeling of Chemicals (GHS) and OECD Harmonized Integrated Classification System for Human Health and Environmental Hazards of Chemical Substances and Mixtures and EC classification.

Skin Sensitization contact

Negative Findings base on Global Harmonized Systems Classification and Labeling of Chemicals and OECD Harmonized Integrated Classifications System for Human Health and Environmental Hazards of Chemical Substances and Mixtures

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

The product contains beneficial bacteria and substances which are found in soils and on plant roots
The product is safe at 100,000 ppm

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.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority require

SECTION 14: TRANSPORTATION INFORMATION

DOT

Proper shipping name Non hazardous
Hazard Class

UN/ID No
Packing Group N/A
Special Provisions N/A

TDG

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

IATA

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

IMDG

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

SECTION 15: REGULATORY INFORMATION

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

International Inventories

TSCA	Listed
DSL	Listed
NDSL	Not Listed
EINECS	Listed
ELINCS	Not Listed
ENCS	
IECSC	
KECL	
PICCS	
AICS	

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

Acute health hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	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

NFPA	Health hazards	Flammability	Instability	Special Hazards
	0	0	0	
HMIS	Health hazards	Flammability	Physical hazards	Personal protection
	0	0	0	

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Revision Note

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, unless specified in the text.

End of Safety Data Sheet