



SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s): Antibacterial Hand Wipes
Product Code(s): 72041 & 72045 (Crown Part Number: 365217-101)
Uses: Single use disposable antibacterial wipes for personal/hand cleaning.
Company: Benchmark Industrial
Address: 950 Claycraft Road; Gahanna, OH 43230; USA
Telephone Number: (614) 695-6500 Fax Number: Not available.
Emergency Telephone Number: Not available.
Date Issued: May 1, 2020 Date Revised: May 1, 2020

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.

SECTION 2 HAZARDS IDENTIFICATION

GHS Signal Word: None.

GHS Classification: Not classified as hazardous

GHS Hazard Statements: None.

GHS Precautionary Statements: Prevention: None. Response: None.
Storage: None. Disposal: None.

Hazards Not Otherwise Classified: None.

GHS Assessment: Approximately < 3% of this mixture consists of ingredient(s) of unknown acute toxicity.
Approximately < 3% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

SECTION 3 COMPOSITION / INGREDIENTS

Component	CAS Number	EC Number	Concentration
Glycerin	56-81-5	200-289-5	0.5 - 2.0%
			<i>Classification: Eye Irrit. 2B: H320</i>
Alkyl(C12-16)dimethylbenzylammonium	68424-85-1	270-325-2	0.1 - 0.5%

SECTION 3 COMPOSITION / INGREDIENTS

chloride

Classification: Acute Tox. 4: H302; Skin Corr. 1B: H314; Eye Dam. 1: H318; Aquatic Acute 1: H400

Other components are non-hazardous, do not significantly contribute to the hazards of the product or do not require disclosure.

Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4 FIRST AID MEASURES

- First Aid - Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation develops.
- First Aid - Skin: In the unlikely event that contact causes a reaction, flush area with soap and water and seek medical attention.
- First Aid - Ingestion: If swallowed and feel unwell, call a physician or poison control center. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
- First Aid - Inhalation: In the unlikely event that inhalation of product mists causes a reaction, move victim away from source of exposure and into fresh air. See medical attention.
- Important Symptoms / Effects – Acute and Delayed: Mild tissue inflammation.
- Advice to Physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

- Extinguishing Media: Treat surrounding material. Water spray, dry chemical, carbon dioxide, or foam is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.
- Specific Hazards: This product is not flammable. This product may give rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive and/or toxic.
- Protective equipment and procedures for fire-fighters: Wear full protective clothing and self-contained breathing apparatus.
- Additional Advice: None.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- Spill Procedures: Collect and/or wipe up spills with an absorbent towel/material and transfer into suitable containers for recovery or disposal. Finally flush area with water.
- Personal Precautions: No special protective clothing is required.
- Environmental Precautions: No special containment is necessary. Do not dispose of product directly into the environment.

SECTION 7 HANDLING AND STORAGE

- Handling: No special handling is required.
- Storage: Keep container(s) tightly closed. Use and store this material at ambient temperatures away from heat, direct sunlight and hot metal surfaces. Keep away

SECTION 7 HANDLING AND STORAGE

from any incompatible materials (see Section 10).

Additional Advice: Store in original container. Store as directed by the manufacturer.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Standards:	Exposure limits are listed below, if they exist.
Antibacterial Hand Wipes:	None.
Glycerin:	(as mist) ACGIH TLV: 10 mg/m ³ TWA. UK: 10 mg/m ³ TWA. OSHA PEL: 5 mg/m ³ TWA (respirable fraction). OSHA PEL: 15 mg/m ³ TWA (total).
Alkyl(C12-16)dimethylbenzylammonium chloride:	None.
Engineering Control Measures:	Not required under normal conditions of use.
Respiratory Protection:	A NIOSH certified respirator with an organic cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits.
Hand Protection:	Not required under normal conditions of use.
Eye Protection:	Not required under normal conditions of use.
Body Protection:	Not required under normal conditions of use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid mixture impregnated into a poly-viscose non-woven fabric
Color:	White to slightly off-white
Odor:	Characteristic, faint
Odor Threshold:	Not available.
pH:	Not available.
Melting Point/Range (°C/°F):	Not available.
Boiling Point/Range (°C/°F):	≥ 100°C / 212°C (based on constituents)
Flash Point (PMCC) (°C/°F):	Not flammable.
Evaporation Rate:	Not available.
Flammability / Explosivity Limits in Air (%):	Not available.
Vapor Pressure:	≤ 23.8 mmHg (25°C) (based on constituents)
Vapor Density (Air = 1):	Not available.
Relative Density:	Not available.
Solubility in Water:	Soluble (based on constituents - liquid mixture)
Partition Coefficient:	Not available.
Autoignition Temperature (°C/°F):	Not available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Decomposition Temperature (°C/°F):	Not available.
Viscosity:	Not available.
Explosive Properties:	None.
Oxidizing Properties:	None.
Volatile Organic Content (VOC) (g/l):	0 g/l (as defined by 40CFR51.100)

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	Product will not undergo additional reaction.
Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Contact with incompatible materials, excessive heat.
Incompatibilities:	Strong oxidizing agents, strong acids.
Hazardous Decomposition Products:	Oxides of carbon, oxides of nitrogen, amines, hydrogen chloride, aliphatic and aromatic compounds, toxic by-products.

SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

Acute Toxicity:	This product is not expected to be appreciably harmful. (Glycerin) Oral LD50 (rat) 5570 mg/kg; Dermal LD50 (rabbit) > 10 g/kg; Inhalation LC50 (rat) > 570 mg/m ³ (1 hr) (Alkyl(C12-16)dimethylbenzylammonium chloride) Oral LD50 (rat) 344 - 795 mg/kg; Dermal LD50 (rabbit) 3412.5 mg/kg; Inhalation LC50 (rat) 0.22 mg/l (4 hr) (aerosol)
Skin Corrosion / Irritation:	The product may be mildly irritating to the skin. (Glycerin) Non-irritating to skin (rabbit). (Alkyl(C12-16)dimethylbenzylammonium chloride) Corrosive to skin (rabbit).
Serious Eye Damage / Irritation:	The product may be slightly irritating to the eyes. (Glycerin) Moderately irritating to eye (rabbit). Initial irritation was observed (1 hour); however, irritation was absent after 24 and 48 hours. Effects were concentration dependent in other testing. (Alkyl(C12-16)dimethylbenzylammonium chloride) Damaging to eyes (rabbit).
Respiratory or Skin Sensitization:	The product is not expected to be dermally sensitizing. (Glycerin) Not dermally sensitizing (guinea pig). (Alkyl(C12-16)dimethylbenzylammonium chloride) Not dermally sensitizing (guinea pig).
Mutagenicity:	This product is not expected to be mutagenic. (Glycerin) Not mutagenic (Ames test, mammalian cell gene mutation assay, sister chromatid exchange assay, DNA damage and repair assay and in vitro mammalian chromosome aberration test). (Alkyl(C12-16)dimethylbenzylammonium chloride) Not mutagenic (Ames test, in vitro mammalian chromosome aberration test, mammalian cell gene mutation assay and micronucleus assay).
Carcinogenicity:	This product is not expected to be carcinogenic. (Glycerin) In a 2-year oral study in rats at up to 8000 mg/kg/day, there was no increase in tumor formation. (Alkyl(C12-16)dimethylbenzylammonium chloride) In a 2-year oral study in rats at up to 2000 ppm in diet, there was no significant carcinogenic activity

SECTION 11 TOXICOLOGICAL INFORMATION

	detected (NOAEL was 97 mg/kg/day).
Reproductive / Developmental Toxicity:	This product is not expected to be reproductively or developmentally harmful. (Glycerin) No maternal toxicity or teratogenic effects were seen at the highest dose levels tested (1180 mg/kg oral) in rats, mice and rabbits. (Alkyl(C12-16)dimethylbenzylammonium chloride) In orally dosed rabbits at up to 30 mg/kg/day, there was no significant effect to maternal reproductive and fetal toxicity; however the NOAEL for maternal systemic toxicity was 3 mg/kg/day based on mortality, weight gains and gross pathology.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure:	This product is not expected to cause organ effects or systemic toxicity upon a single exposure. (Glycerin) Kidney damage was noted in rats by subcutaneous injection; however, effects were reversible in 6-12 weeks. Central nervous system effects were also noted in a separate study. (Alkyl(C12-16)dimethylbenzylammonium chloride) No data.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Repeated Exposure:	This product is not expected to cause organ effects or systemic toxicity upon repeated exposure. (Glycerin) No systemic effects were seen at the highest dose tested (3910 mg/m ³) by inhalation over 14 days in rats. The NOAEC for systemic effects was 662 mg/m ³ ; the NOEL in rats was 5000 mg/kg per day. (Alkyl(C12-16)dimethylbenzylammonium chloride) In a 95 day oral study in rats at up to 62 mg/kg/day, the NOAEL was 31 mg/kg/day with only slight or no systemic toxicity.
Aspiration Hazard:	This product is not expected to pose an appreciable aspiration hazard.
Additional Information:	None.

SECTION 12 ECOLOGICAL INFORMATION

If available, ecological data for the product is given; otherwise component data is listed.

Acute Ecotoxicity:	This product may be harmful to aquatic organisms. Classification is not required as the product's constituents are readily biodegradable and pose a low potential for bioaccumulation. (Glycerin) LC50 (Rainbow trout) 54 g/l/96 hr; LC50 (Daphnia magna) 1.955 g/l/48 hr; EC50 (algae) 2.9 g/l. (Alkyl(C12-16)dimethylbenzylammonium chloride) LC50 (Bluegill sunfish) 0.515 mg/l/96 hr; EC50 (Daphnia magna) 0.016 mg/l/48 hr; EC50 (algae) 0.03 mg/l/96 hr.
Mobility:	(Glycerin) Expected to have very high mobility based upon an estimated Koc of 1. (Alkyl(C12-16)dimethylbenzylammonium chloride) No data.
Persistence/Degradability:	(Glycerin) Readily biodegradable (94% in 24 hours). (Alkyl(C12-16)dimethylbenzylammonium chloride) Readily biodegradable (63% in 28 days).
Bioaccumulation:	(Glycerin) An estimated BCF of 3 suggests the potential for bioconcentration in aquatic organisms is low. (Alkyl(C12-16)dimethylbenzylammonium chloride) A BCF of 79 in fish indicated a low potential for bioaccumulation.
Other adverse effects:	None.

SECTION 13 DISPOSAL CONSIDERATION

Environmental precautions:	No special containment is necessary. Do not dispose of product directly into the environment.
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SECTION 13 DISPOSAL CONSIDERATION

Product Disposal: Dispose in accordance with all local, state (provincial), and federal regulations.

Container Disposal: Dispose in accordance with all local, state (provincial), and federal regulations.

SECTION 14 TRANSPORT INFORMATION

DOT (US):

Proper Shipping Name: Not regulated

UN Number: None.

Class: None.

Packaging Group: None.

Reportable Quantity: None.

Marine Pollutant: None.

IATA:

Proper Shipping Name: Not regulated

UN Number: None.

Class: None.

Packing Group: None.

IMDG:

Proper Shipping Name: Not regulated

UN Number: None.

Class: None.

Packing Group: None.

Marine Pollutant: None.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

SECTION 15 REGULATORY INFORMATION

US Toxic Substance Control Act: The components of this product are exempt from the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory, when used in drug-related products.

Canadian Domestic Substance List: One or more components of this product are not listed on the Canadian Domestic Substance List. Limited quantities may be permitted.

EU REACH: One or more components of this product have not been pre-listed or registered under REACH. Limited quantities may be permitted.

TSCA Sec.12(b) Export Notification: This product does not contain a chemical at or above de minimis concentrations which requires reporting.

Canadian WHMIS Classification: D.2.B
This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

Massachusetts Right-To-Know: This product contains materials subject to disclosure under the

SECTION 15 REGULATORY INFORMATION

	Massachusetts Right-To-Know Law: - Glycerin (as mist)
New Jersey Right-To-Know:	This product contains materials subject to disclosure under the New Jersey Right-To-Know Law: - Glycerin (3319)
Pennsylvania Right-To-Know:	This product contains materials subject to disclosure under the Pennsylvania Right-To-Know Law: - Glycerin
California Proposition 65:	This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.
SARA TITLE III-Section 311/312 Categorization (40 CFR 370):	Immediate (acute) hazard (as of 2018, the EPA has adopted GHS hazard classifications)
SARA TITLE III-Section 313 (40 CFR 372):	This product does not contain materials which are listed in Section 313 at or above de minimis concentrations.
CERCLA Hazardous Substance (40 CFR 302)	This product does not contain materials subject to reporting under CERCLA and Section 304 of EPCRA.
Water Hazard Class (WGK):	This product is slightly water-endangering (WGK=1).
Other Chemical Inventories:	Australia (AICS): One or more components are not listed. China (IECSC): All components are listed. Japan (ENCS): One or more components are not listed. Korea (KCI): One or more components are not listed. Philippines (PICCS): All components are listed. Taiwan (TCSI): All components are listed.

SECTION 16 OTHER INFORMATION

NFPA Rating - HEALTH:	1		
NFPA Rating - FIRE:	0		
NFPA Rating - REACTIVITY:	0		
NFPA Rating - SPECIAL:	NONE		
Full text of H-Statements referred to under Section 3:			
H302	Harmful if swallowed		
H314	Causes severe skin burns and eye damage		
H318	Causes serious eye damage		
H320	Causes eye irritation		
H400	Very toxic to aquatic life		
SDS Date Issued:	May 1, 2020		
SDS Current Version:	1.0	Version Date:	May 1, 2020
SDS Revision History:	v1.0 Initial version.		
Abbreviations:	GHS:	Globally Harmonized System of Classification and Labeling of Chemicals	
	CAS#:	Chemical Abstract Services Number	

SECTION 16 OTHER INFORMATION

ACGIH: American Conference of Governmental Industrial Hygienists
 OSHA: Occupational Safety and Health Administration
 NFPA: National Fire Protection Association
 DOT: US Department of Transportation
 RCRA: US Resource Conservation and Recovery Act
 TLV: Threshold Limit Value
 TWA: Time-Weighted Average
 PEL: Permissible Exposure Limit
 STEL: Short Term Exposure Limit
 WEEL: Workplace Environmental Exposure Levels
 AIHA: American Industrial Hygiene Association
 NTP: National Toxicology Program
 IARC: International Agency for Research on Cancer
 LD50: Lethal Dose 50%
 LC50: Lethal Concentration 50%
 NOAEL: No Observed Adverse Effect Level
 NOEL: No Observed Effect Level
 EC50: Effective Concentration 50%
 LL50: Lethal Loading Rate 50%
 BCF: Bioconcentration Factor
 BOD: Biological Oxygen Demand
 Koc: Soil Organic Carbon Partition Coefficient.
 TIm: Median Tolerance Limit

Key References:

United States National Library of Medicine's TOXNET
 Patty's Toxicology, 5th Edition
 European Commission's Institute for Health and Consumer Protection
 European Chemicals Agency (ECHA)
 American Conference of Governmental Industrial Hygienists
 International Agency for Research on Cancer
 United States National Toxicology Program
 United States Occupational Safety and Health Administration
 United States Department of Transportation
 Supplier Material Safety Data Sheets

Disclaimer:

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Prepared by:

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