SAFETY DATA SHEETS

This SDS packet was issued with item:

078335356

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

074876504

SAFETY DATA SHEET

Section 1: Identification

1.1. Product Identifier
Speed-Clean

1.2. Recommended Use and Restrictions on Use
Sterilizer Cleaner

1.3. Supplier's Details

Developed For:	Midmark Corporation
Address:	60 Vista Drive, P.O. Box 286, Versailles, OH 45380-0286, USA
Telephone:	1-800-MIDMARK

1.4. Emergency Telephone Number:
(937) 526-8498

Section 2: Hazard Identification

2.1. Hazard Classification
Skin Irritation: Category 2
Eye Irritation: Category 2A

2.2. Label Elements
Signal Word
Warning

Symbols
Exclamation Mark

GHS07

Hazard Statements
Prolonged or repeated skin contact causes skin irritation
Contact with eyes causes eye irritation

Precautionary Statements
Prevention:
Wear eye/face protection.
Wear impervious gloves.
Wash hands after handling this material.

Response:
IF IN EYES: Immediately flush eyes with water for 15 minutes, intermittently lifting the lower and upper eyelids.
IF ON SKIN: Flush skin with running water for 15 minutes.

2.3. Hazards Not Otherwise Classified
None

Section 3: Composition/Information on Ingredients

	wt%	CAS Registry #
Water	88 – 92%	7732-18-5
2-Butoxyethanol	<3%	111-76-2
Tetrapotassium pyrophosphate	<2.5%	7320-34-5
Ethoxylated alcohols phosphate ester	<2%	68130-47-2
Tergitol NP-33	≤1%	9016-45-9

Section 4: First Aid Measures

4.1. Description of first aid measures

Inhalation: Move person to fresh air. If symptoms persist or develop, obtain immediate medical attention.

Skin Contact: Flush skin with running water for 15 minutes. Seek medical attention if irritation persists.

Eye Contact: Immediately flush eyes with water for 15 minutes, intermittently lifting the lower and upper eyelids. If irritation persists, seek immediate medical attention.

Ingestion: Never give anything by mouth to an unconscious person. If conscious and alert, rinse mouth.

Section 5: Fire-Fighting Measures

5.1. Suitable extinguishing media
Material is non-flammable. Water may be used to fight a fire however, use extinguishing media that is appropriate for the surrounding materials.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

5.3. Special protective actions for fire-fighters
No unusual fire or explosion hazards are anticipated.

Section 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental Precautions
Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Don appropriate personal protective equipment and then take immediate steps to stop and contain the spill. Contain and recover liquid when possible. Collect material in an appropriate container or absorb with an inert material (vermiculite, dry sand, earth), and place in a chemical waste container.

Section 7: Handling and Storage

7.1. Conditions for safe storage including any incompatibles
Store in a clean, dry, well ventilated area away from incompatible materials (see Section 10). Keep containers closed when not in use. Empty containers may contain residues; therefore, use the same caution when handling empty containers as handling the product. Use product in a well-ventilated area.

Section 8: Exposure Controls/Personal Protection

8.1. Control Parameters
Chemical Composition/Hazardous Ingredients/Occupational Exposure Limits – exposure limits are time weighted averages (TWA), short-term exposure limits (STEL) and Ceiling (C) and are included if established.

Ingredient	ACGIH TLV	OSHA PEL	IDLH	STEL	NIOSH REL
Water	Not Established	Not Established	Not Established	Not Established	Not Established
2-Butoxyethanol	20 ppm	50 ppm	700 ppm	Not Established	5 ppm
Tetrapotassium Pyroposphate	Not Established	Not Established	Not Established	Not Established	Not Established
Ethoxylated Alcohols phosphate ester	Not Established	Not Established	Not Established	Not Established	Not Established
Tergitol NP-33	Not Established	Not Established	Not Established	Not Established	Not Established

8.2. Exposure Controls
8.2.1. Engineering Controls
Use in an area with adequate ventilation. If material is irritating to the respiratory tract or exceeds the TWA, then proper respiratory protection should be worn.

8.2.2 Personal Protective Equipment (PPE)
Eye and Face: Wear splash goggles and face shield if splashing is possible during use. Follow guidelines by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin: Prevent skin contact. Wear impervious gloves to prevent skin contact.

Respiratory: Respiratory protection may not be required where adequate ventilation conditions exist. If vapors exist above the PEL, a NIOSH-approved respirator is recommended. If respiratory protection is required, a respiratory program including selection, fit testing, training, maintenance and inspection should be implemented per OSHA's 29 CFR1910.134 and ANSI Z88.2 requirements or European Standard EN 149.

Work Hygienic Practices: Do not eat, drink, or smoke in work area. Always wash hands after handling this material. Maintain good housekeeping.

Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

General Physical Form:	Liquid
Color:	Clear
pH:	8
Flash Point:	>200 F

2-Butoxyethanol

Boiling Point: 339 °F	pH: Not available
Freezing Point: -107 °F	Specific Gravity: 0.90
Solubility in Water: Miscible	Molecular Weight: 118.2

Tetrapotassium Pyrophosphate

Boiling Point: Decomposes	pH: 10
Freezing Point: N/A	Specific Gravity: 2.33
Solubility in Water: Easily soluble in water	Molecular Weight: 330.34

Ethoxylated alcohols phosphate ester

Boiling Point: N/A	pH: N/A
Freezing Point: N/A	Specific Gravity: N/A
Solubility in Water: N/A	Molecular Weight: N/A

Section 10: Stability and Reactivity

10.1. Chemical Stability
Stable

10.2. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.3. Conditions to avoid
Heat and Ignition Sources

10.4. Incompatible materials
Strong oxidizing agents, acids, ammonia, organic amines, chlorates, chlorine, and reducing agents

10.5. Hazardous Decomposition
Carbon Monoxide, Carbon Dioxide, Oxides of Phosphorus, and irritating fumes and gases

Section 11: Toxicological Information

11.1. Teratology
No information available

11.2. Reproduction
High doses of 2-Butoxyethanol may cause reproductive problems and birth defects in animals.

11.3. Mutagenicity
No information available

2-Butoxyethanol
Acute Dermal Toxicity – (rabbit) LD_{50} = 100-610 mg/kg
Acute Inhalation Toxicity – (rat) LC_{50} = 450-486 ppm (4H)
Acute Oral Toxicity – (rat) LD_{50} = 530-3000 mg/kg

Section 12: Ecological Information

Section 12.1.
ECOTOXICOLOGICAL INFORMATION:

2-Butoxyethanol
Acute/Prolonged Toxicity to Fish – (oyster) 4d LC_{50} = 89 mg/L
Acute Toxicity to Aquatic Invertebrates – (*Daphnia*) 2d LC_{50} = 835 mg/L
Toxicity to Aquatic Plants – (algae) 7d EC_{50} > 1000 mg/L
Chronic Toxicity to Fish – (Flathead minnow) 32d MATC = 135 mg/L
Fate: In the air this material is expected to readily degrade. Not expected to be toxic to aquatic life.

Tetrapotassium pyrophosphate
Acute Toxicity to Fish – (Zebra Mussel) 24h LC_{50} = 72 mg/L

Section 13: Disposal Considerations

Section 13.1.
DISPOSAL METHOD: Disposal must be in accordance with applicable federal, state and local governmental regulations. Recycling of the material is preferred.

Section 13.2.
PRODUCT DISPOSAL: Refer to US EPA guidelines for the classification listed in 40 CFR 261.3.

Section 13.3.
EMPTY CONTAINER: Empty containers may contain residue. Use safety measures when handling empty containers.

Section 13.4.
GENERAL COMMENTS: Recovery and recycling of the materials is preferred.

Section 14: Transport Information

Section 14.1.
SPECIAL SHIPPING NOTES: This product is not regulated by the Department of Transportation

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SAFETY DATA SHEET

Section 15: Regulatory Information

Section 15.1.
CERCLA (COMPREHENSIVE EMERGENCY RESPONSE, COMPENSATION, AND LIABILITY ACT): None are found CERCLA Priority List of Hazardous Chemicals, or on the EPA List of Lists (EPCRA) list.

Section 15.2.
TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA Regulatory: 2-Butoxyethanol; Tergitol NP-33; & Tetrapotassium pyrophosphate are listed on the TSCA list.

Section 15.3.
RCRA STATUS: None are found on RCRA P-Series or U-Series.

Section 15.4.
CLEAN WATER ACT: None of the components are listed as a Priority Pollutant or a Toxic Pollutant under the Clean Water Act.

Section 15.5.
CANADA:
All components are found on the DSL/NDSL list.

Section 16: Other Information

REVISION INFORMATION:

Approved by: Environmental Health and Safety Manager
Approval date: August 2014

REFERENCES:
1. 2010 National Institute of Occupational Safety and Health (NIOSH) Pocket Guide to Chemical Hazards
2. 2007 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, ACGIH
3. Department of Transportation Emergency Response Guidebook –2012
4. Code of Federal Regulation (CFR) 29, 40, and 49
5. Toxnet online database
6. Mallinckrodt Baker, Inc. online MSDS database
7. NTP online toxicology database
8. CDC.gov website for toxicological data
9. EPA Title III List of Lists – 2012
10. Toxic Substance Control Act Chemical Inventory List
11. Pesticide Action Network – Pesticide Database
12. International Programme on Chemical Safety, INCHEM website

MANUFACTURER DISCLAIMER:
Our purpose in sending this information is to help you protect the health and safety of your personnel. The information in this Material Safety Data Sheet meets or exceeds the requirements of the United States Occupational Safety and Health Act and Regulation promulgated thereunder (29 CFR 1910.1200 et. Seq.). Midmark Corporation believes the information present herein is based on reliable and accurate data gathered as of the date of the Safety Data Sheet. Midmark Corporation provides no warranty or representation and disclaims all liability for the accuracy or completeness of the provided information.