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SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION 077-0033-00

Product Name:Speed-Clean

Manufacturer MSDS.:077-0033-00

Manufacturer Name:Midmark Corporation

Address: P.O. Box 286
60 Vista Drive
Versailles, Ohio 45380-0286

Product Description: Sterilizer Cleaner

Business Phone:(937) 526-3662

CHEMTREC Numbers:

For emergencies in the US, call CHEMTREC: 800-424-9300

Revision Date:June 2007

Rev L

HMIS:

PPE = See Section 8

NFPA

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HMIS

HEALTH2

FIRE0

REACTIVITY0

PPE

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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS077-0033-00

Ingredient NameCAS#Ingredient Percent

Water7732-18-580% by Weight
OSHA PEL TWA:Not Established
ACGIH TLV TWA:Not Established
NIOSH REL:Not Established
EC Index Number:1
Other Exposure Guidelines:IDLH: Not Established
STEL: Not Established

2-Butoxyethanol111-76-2< 6% by Weight
OSHA PEL TWA:50 ppm
ACGIH TLV TWA:20 ppm
NIOSH REL:5 ppm
EC Index Number:1
Other Exposure Guidelines:IDLH: 700 ppm
STEL: Not Established

Tetrapotassium pyrophosphate7320-34-5< 5% by Weight
OSHA PEL TWA:Not Established
ACGIH TLV TWA:Not Established
NIOSH REL:Not Established
EC Index Number:1
Other Exposure Guidelines:IDLH: Not Established
STEL: Not Established

Ethoxylated alcohols phosphate ester68130-47-2< 4% by Weight
OSHA PEL TWA:Not Established
ACGIH TLV TWA:Not Established
NIOSH REL:Not Established
EC Index Number:1
Other Exposure Guidelines:IDLH: Not Established
STEL: Not Established

Tergitol NP-339016-45-9< = 1% by Weight
OSHA PEL TWA:Not Established
ACGIH TLV TWA:Not Established
NIOSH REL:Not Established
EC Index Number:1
Other Exposure Guidelines:IDLH: Not Established
STEL: Not Established

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.

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SECTION 3 : HAZARDS IDENTIFICATION077-0033-00

Potential Health Effects:Prolonged or repeated skin contact with material may cause a mild dermatitis in some individuals. Ingestion of the material may cause irritation to the gastrointestinal tract May cause irritation, redness and corneal injury if splashed into the eyes.

HMIS/NFPA classification for liquid product as shipped
Health = 2
Flammability = 0
Reactivity = 0
PPE = See Section 8

Applies to all ingredients:

Potential Health Effects:Short-term exposures may cause headaches, coughing, wheezing, shortness of breath, nasal irritation, and dermatitis.

Chronic Health Effects:Prolonged exposure may cause kidney, liver and central nervous system damage.

Carcinogenicity:All other materials are not listed on EPA, NTP, IARC, ACGIH or OSHA as carcinogenic.

Target Organs:Eyes, skin, kidneys, central nervous system, liver, blood.

Signs/Symptoms:EYES: Contact may cause irritation, discomfort, redness, stinging, tearing and/or pain.

SKIN: May cause irritation, itching, redness, dryness, and/or pain.

INGESTION: Swallowing may cause gastric irritation which would include nausea, vomiting and abdominal pain.

INHALATION: May cause irritation to respiratory tract, nose, and throat. Symptoms may include coughing, headache, nausea, vomiting, and low blood pressure.

2-Butoxyethanol :

Carcinogenicity:IARC-3 (Unclassifiable as to Carcinogenicity to Humans)

EPA-C (Possible Human Carcinogen)

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SECTION 4 : FIRST AID MEASURES077-0033-00

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

Skin Contact: Flush skin with running water for 15 minutes. Launder clothes before reuse. Seek medical attention if irritation persists.
Inhalation: Move person to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen. DO NOT use mouth-to-mouth resuscitation. If symptoms persist or develop, obtain immediate medical attention.
Ingestion: Never give anything by mouth to an unconscious person. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. DO NOT induce vomiting. If vomiting occurs, keep victim's head lower than hips to avoid aspiration. Seek medical attention immediately.

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SECTION 5 : FIRE FIGHTING MEASURES 077-0033-00

Explosion: None known.
Flash Point: > 200 deg F
Upper Flammable or Explosive Limit: Not Applicable
Lower Flammable or Explosive Limit: Not Applicable
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.
Hazardous Combustion Byproducts: Non-flammable
Fire Fighting Instructions: Evacuate area and fight fire from safe distance. Contact professional fire fighter immediately.
Protective Equipment: Fire fighters should wear proper protective equipment including self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode, NIOSH approved, and full protective gear.
Vapor Pressure: Not Applicable

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SECTION 6 : ACCIDENTAL RELEASE MEASURES 077-0033-00

Spill Cleanup Measures: Don appropriate personal protective equipment 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. Provide adequate ventilation, a vapor suppressing foam may reduce vapors. Flush cleaned area with water.

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SECTION 7 : HANDLING and STORAGE 077-0033-00

Handling: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.

Storage:Store in a clean, dry, well ventilated area away from incompatible materials (see section 10).

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

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION 077-0033-00

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 (see RESPIRATORY below).

Skin Protection Description:Prevent skin contact. Wear impervious clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye/Face Protection: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 or European Standard EN 166.

Protective Clothing/Body Protection:Most materials commonly used in protective clothing are sufficient. All contaminated clothing should be removed before leaving the work area and laundered prior to re-use.

Respiratory Protection:Respiratory protection may not be required where adequate ventilation conditions exist. If vapors exist above the PEL or OEL, 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. It should meet OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149.

Other Protective:OTHER USE PRECAUTIONS: Eyewash stations and emergency showers should be located in or around areas using or storing material.

WORK HYGIENIC PRACTICES: Do not eat, drink, or smoke in work area. Always wash hands after handling this material. Maintain good housekeeping.

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SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES 077-0033-00

pH:8.01
2-Butoxyethanol: Not available
Tetrapotassium Pyrophosphate: 10
Ethoxylated alcohols phosphate ester: Not Applicable
Boiling Point:2-Butoxyethanol: 339 deg F
Tetrapotassium Pyrophosphate: Decomposes
Ethoxylated alcohols phosphate ester: Not Applicable
Freezing Point:2-Butoxyethanol: -107 deg F
Tetrapotassium Pyrophosphate: Not Applicable
Ethoxylated alcohols phosphate ester: Not Applicable
Solubility:In Water:
2-Butoxyethanol: Miscible
Tetrapotassium Pyrophosphate: Easily soluble in water
Ethoxylated alcohols phosphate ester: Not Applicable
Specific Gravity:2-Butoxyethanol: 0.90
Tetrapotassium Pyrophosphate: 2.33
Ethoxylated alcohols phosphate ester: Not Applicable
Molecular Weight:2-Butoxyethanol: 118.2
Tetrapotassium Pyrophosphate: 330.34
Ethoxylated alcohols phosphate ester: Not Applicable

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SECTION 10 : STABILITY and REACTIVITY077-0033-00

Chemical Stability:STABLE: Yes
Conditions to Avoid:Heat and Ignition Sources
Incompatibilities with Other Materials:Strong oxidizing agents, acids, ammonia, organic amines, chlorates, chlorine, and reducing agents.
Hazardous Polymerization:Will not occur
Hazardous Decomposition Products:Carbon monoxide, carbon dioxide, oxides of phosphorus, and irritating fumes and gases.

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SECTION 11 : TOXICOLOGICAL INFORMATION077-0033-00

Applies to all ingredients:
Mutagenicity:No information available
Teratogenicity:No information available
Reproductive Toxicity:High doses of 2-Butoxyethanol may cause reproductive problems and birth defects in animals.
2-Butoxyethanol :
Skin Effects:Acute Dermal Toxicity û (rabbit) LD50 = 100-610 mg/kg
Ingestion Effects:Acute Oral Toxicity û (rat) LD50 = 530-3000 mg/kg
Inhalation Effects:Acute Inhalation Toxicity û (rat) LC50 = 450-486 ppm (4H)

SECTION 12 : ECOLOGICAL INFORMATION077-0033-00

Ecological Paragraph:2-Butoxyethanol
Acute/Prolonged Toxicity to Fish û (oyster) 4d LC50 = 89 mg/I
Acute Toxicity to Aquatic Invertebrates û (Daphnia) 2d LC50 =
835 mg/L
Toxicity to Aquatic Plants û (algae) 7d EC50 > 1000 mg/L
Chronic Toxicity to Fish û (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 û (Zebra Mussel) 24h LC50 = 72 mg/L

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SECTION 13 : DISPOSAL CONSIDERATIONS077-0033-00

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

PRODUCT DISPOSAL: A RCRA approved waste facility needs to
determine if the discarded chemical is classified as a
hazardous waste. Refer to US EPA guidelines for the
classification listed in 40 CFR 261.3.

EMPTY CONTAINER: Empty containers may contain residue. Use
safety measures when handling empty containers.
GENERAL COMMENTS: Recovery and recycling of the materials is
preferred.

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SECTION 14 : TRANSPORT INFORMATION077-0033-00

Special Shipping Information:SPECIAL SHIPPING NOTES: This
product is not regulated by the Department of Transportation
RCRA P-Series: None listed
RCRA U-Series: None listed

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SECTION 15 : REGULATORY INFORMATION077-0033-00

Applies to all ingredients:

TSCA 8(b): Inventory Status:TSCA Regulatory: 2-Butoxyethanol; Tergitol NP-33; & Tetrapotassium pyrophosphate are listed on the TSCA list.

Section 304: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 116.4 part 117: Clean Water ActNone of the components are listed as a Priority Pollutant or a Toxic Pollutant under the Clean Water Act.

Canada WHMIS:All components are found on the DSL/NDSL list.

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

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SECTION 16 : ADDITIONAL INFORMATION077-0033-00

HMIS:

Health Hazard:2

Fire Hazard:0

Reactivity:0

NFPA:

Health:2

Fire Hazard:0

Reactivity:0

MSDS Revision Date:June 2007

Rev L

MSDS Author:Approved by: Environmental Compliance Manager

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 Material Safety Data Sheet. Midmark Corporation provides no warranty or representation and disclaims all liability for the accuracy or completeness of the provided information.

HMIS:

PPE = See Section 8

REFERENCES:

1. 2005 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
û2004
 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 û 2001
 10. Toxic Substance Control Act Chemical Inventory List
 11. Pesticide Action Network û Pesticide Database
 12. International Programme on Chemical Safety, INCHEM websit

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