

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012



Product: MICROKLEEN-A Low Suds Alkaline Detergent- M60014

Revision Date: 25-Sep-2015

SECTION 1 – IDENTIFICATION

Product Identifier

Product Name: MICROKLEEN-A Low Suds Alkaline Detergent

Product Code: M60014

Recommended Use of the Chemical and Restrictions for Use

Recommended Use: Detergent

Restrictions for Use: Use only as directed.

Details of the Supplier

Manufactured for: Micro-Scientific
755 Tri-State Parkway
Gurnee, IL 60031 USA
1-224-656-6502

Emergency Phone Number

24-Hour Number: 1-800-535-5053

International: 1-352-323-3500

SECTION 2 – HAZARDS IDENTIFICATION

Classification

Hazard Class	Category
Corrosive to metals	1
Skin corrosion	1B
Serious eye damage	1

Label Elements

Hazard Symbols(s):



Signal Word(s): Danger

Hazard Statement(s): May be corrosive to metals. Causes severe skin burns and eye damage.

Precautionary Statement(s): Keep in original container. Do not breathe dusts or mists. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Absorb spillage to prevent material damage. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing before reuse. Immediately call a poison center or doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Store in corrosive resistant container with resistant inner line. Store locked up. Dispose of contents and container in accordance with all local, regional, nation and international regulations.

Other Hazards

10% of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Wt %
Potassium Silicate	1312-76-1	5-10
Sodium Hydroxide	1310-73-2	3-7
Phosphonic Acid [[[phosphonomethyl]imino]bis[2,1-ethanediylnitrilobis(methylene)]]tetrakis-	15827-60-8	1-5
1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-[(1-oxooctyl)amino]-, inner salt	73772-46-0	1-5
Alcohols, C12-14, ethoxylated propoxylated	68439-51-0	0.5-1.5

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The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4 – FIRST AID MEASURES

First Aid Measures

Inhalation: Remove to fresh air. If person is having difficulty breathing, give oxygen and call a Poison Center or physician immediately.

Eye Contact: Rinse immediately with water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Immediately call Poison Center or seek medical.

Skin: Remove contaminated clothing. Wash with soap and water. If irritation persists, seek medical attention.

Most Important Symptoms and Effects (Acute and Delayed)

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Eye Contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Skin: Causes severe skin burns. Symptoms may include redness, pain, and blisters.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physician: Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Suitable: Treat for surrounding material.

Unsuitable: None known.

Specific Hazards Arising from Chemical

Products of combustion include but are not limited to: oxides of carbon.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep upwind of fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions: Use personal protective equipment as recommended in section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions: See Section 12 for ecological information.

Methods and Material for Containment and Cleaning Up

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Provide ventilation.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Handle in accordance with good industrial hygiene and safety practice. Wash hands after use. Do not breathe mist/vapors/spray. Do not eat, drink, or smoke when using this product.

General Hygiene Advice: Launder contaminated clothing before use. Wash hands before eating, drinking, or smoking.

Conditions for Safe Storage, Including any Incompatibilities

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Storage Conditions: Keep container tightly closed when not in use. Store in a dry, cool, and well-ventilated area and in original container or corrosive resistant and/or lined container.. Keep out of reach of children.

Incompatible Materials: Metals

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide 1310-73-2	2 mg/m ³	2 mg/m ³	Not available

Exposure Guidelines:

No data available.

Appropriate Engineering Controls

Use ventilation adequate to keep exposures (airborne levels of fume, vapor, etc.) below recommended exposure limits.

Individual Protection Measures

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on know or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin and Body Protection: Wear suitable protective clothing. Wear latex, rubber, nitrile, or polyethylene gloves.

Eye/Face Protection: Wear approved eye protection (or splash-proof chemical safety goggles) and face protection (face shield).

General Work/Hygienic Practices: Handle in accordance with good industrial hygiene and safety practice. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Straw Liquid

Odor: Odorless

Odor threshold: Not determined

pH: ≥13.2

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

Flash point: Not determined

Evaporation rate: Not determined

Flammability (solid, gas): Not flammable

Upper/lower flammability or explosive limits: Not determined

Vapor pressure: Not determined

Vapor density: 1.19

Relative density: Not determined

Solubility(ies): Not determined

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable under recommended storage conditions.

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Possibility of hazardous reactions: None under normal use.

Conditions to avoid: Heat. Incompatible materials.

Incompatible materials: Metals.

Hazardous decomposition products: May include and are not limited to: oxides of carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Likely Routes of Exposure: Inhalation, skin contact, eye contact, ingestion

Information Related to Physical, Chemical, and Toxicological Effects

See section 4 of this SDS.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity: NTP: No IARC: No OSHA: No

Numerical Measures of Toxicity

Product	
ATE (oral)	>2000 mg/kg, rat
ATE (dermal)	>2000 mg/kg, rabbit
ATE (inhalation)	Not available

Component Information:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium silicate (1312-76-1)	>5000 mg/kg (rat)	Not determined	Not determined
Sodium hydroxide (1310-73-2)	Not determined	1350 mg/kg (rabbit)	Not determined
Phosphonic Acid [[[phosphonomethyl)imino]bis[2,1-ethanediylnitribis(methylene)]]]tetrakis- (15827-60-8)	7180 mg/kg (rat)	>7940 mg/kg (rabbit)	Not determined
Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)	Not determined	Not determined	Not determined

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Not established

Persistence and degradability: Not established

Bioaccumulative potential: Not established

Mobility in soil: No additional information available

Other adverse effects: No additional information available

SECTION 13 – DISPOSAL CONSIDERATIONS

See section 8 of this SDS for exposure controls and personal protection.

Dispose of the product and container in accordance with all applicable local, state, and federal regulations.

SECTION 14 – TRANSPORT INFORMATION

Note: Classification changes based on quantity, packaging, and method of shipment. See current shipping paper for most up to date shipping information.

UN1760, Corrosive liquids, n.o.s. (sodium hydroxide), 8, PG II

DOT (Ground): Regulated

IATA (Air): Regulated

IMDG (Vessel): Regulated

SECTION 15 – REGULATORY INFORMATION

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All ingredients in this product are listed or are excluded from listing on the US Toxic Substances Act (TSCA) Chemical Substance Inventory.

SECTION 16 – OTHER INFORMATION

Issue Date: 25-Sep-2015

Revision Date: 25-Sep-2015

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 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 designed 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