Safety Data Sheet

Micro-Kill Q10

Section 1. Identification

Product Identifier	Micro-Kill Q10
Synonyms	EVSCHEM100A; MSD_SDS0312
Manufacturer Stock Numbers	EVSCHEM100A
Recommended use	Disinfectant cleaner.
Uses advised against	None known.

Manufacturer Contact

Address

Medline Industries, Inc.
3 Lakes Drive
Northfield, IL, 60093
USA

Phone	Emergency Phone	Fax
(800) 633-5463	(800) 424-9300 CHEMTREC	(847) 643-4436

Website

www.Medline.com

Section 2. Hazards Identification

Classification	ACUTE TOXICITY - DERMAL - Category N/A ACUTE TOXICITY - INHALATION - Category N/A ACUTE TOXICITY - ORAL - Category N/A SERIOUS EYE DAMAGE /EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2
Signal Word	Danger

Pictogram

Hazard Statements
Causes serious eye damage
Causes skin irritation

Precautionary Statements

Response
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If on skin: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
Immediately call a poison center/doctor.
Wash contaminated clothing before reuse.

Prevention
Wash hands thoroughly after handling.
Wear protective gloves.
Wear safety glasses with side shields (or goggles).

Storage
Store away from incompatible materials. Keep out of the reach of children.

Disposal
Dispose of waste and residues in accordance with local authority requirements.

Ingredients of unknown toxicity
0%

Hazards not Otherwise Classified
None known.

Supplemental Information:
None known.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
68424-85-1	ALKYL (C 12-16) DIMETHYLBENZYL AMMONIUM CHLORIDE	5% - 10%
7173-51-5	Didecyldimethylammonium chloride	1% - 5%
5538-94-3	Dioctyl Dimethyl Ammonium Chloride	1% - 5%
64-17-5	Ethyl Hydroxide	1% - 5%
	Non-Ionic Surfactant	1% - 5%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Inhalation:
Move to fresh air. Call a physician if symptoms develop or persist.

Skin Contact:
Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention immediately.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed:	Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
Indication of any immediate medical attention and special treatment needed:	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General Information:	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable Extinguishing Media	None known.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special Protective Equipment and Precautions for Fire-Fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions:	Move containers from fire area if you can do so without risk.
Specific Methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General Fire Hazards:	No unusual fire or explosion hazards noted.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of this SDS.
Methods and Materials for Containment and Cleaning up:	Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Section 7. Handling and Storage

Precautions for safe handling:	Do not get this material in contact with eyes. Avoid contact with skin. Avoid contact with clothing. Avoid prolonged exposure. Provide adequate ventilation. Do not mix with other chemicals. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities:	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
ALKYL (C 12-16) DIMETHYLBENZYL AMMONIUM CHLORIDE	N/A	N/A	N/A
Didecyldimethylammonium chloride	N/A	N/A	N/A
Dioctyl Dimethyl Ammonium Chloride	N/A	N/A	N/A
Ethyl Hydroxide	STEL: 1,000 ppm Note: Upper respiratory track irritation. Confirmed animal carcinogen with unknown relevance to humans.	TWA: 1,000 ppm 1,900mg/mm3 29 CFR 1910.1000 Table Z-1 Limits	N/A
Non-Ionic Surfactant	N/A	N/A	N/A

Personal Protective Equipment	Goggles, Gloves, Respirator
Appropriate Engineering Controls:	Eye wash facilities and emergency shower must be available when handling this product. Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Individual protection measures, such as personal protective equipment	Eye/face protection: Wear safety glasses with side shields (or goggles). Skin protection: Hand protection: Wear appropriate chemical resistant gloves. Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
General Hygiene Considerations:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Green or Colourless/Pink
Odor	Pleasant Sassafrass or Floral
Odor Threshold	Not available
Solubility	100%
Partition coefficient Water/n-octanol	Not available
VOC%	N/A
Viscosity	Water-thin
Specific Gravity	1.02
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	None to Boiling
FP Method	N.D.
pH	1.3
Melting Point	Not available
Boiling Point	212°F (100°C)
Boiling Range	N.D.
LEL	N/A
UEL	N/A
Evaporation Rate	Not available
Flammability	Not available
Decomposition Temperature	Not available
Auto-ignition Temperature	Not available
Vapor Pressure	Not available
Vapor Density	Not available

Explosive Properties:	Not explosive.
Oxidizing Properties:	Not oxidizing.
VOC:	2.1% Less Exempts and Water

Section 10. Stability and Reactivity

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Contact with incompatible materials. Do not mix with other chemicals. Reacts violently with strong alkaline substances.
Incompatibility (Materials to Avoid)	Incompatible with bases. This product may react with reducing agents.

Hazardous Decomposition or Byproducts	No hazardous decomposition products are known.

Section 11. Toxicological Information

Information on likely routes of exposure:	Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Prolonged inhalation may be harmful. Skin contact: Causes skin irritation. Eye contact: Causes serious eye damage. Ingestion: Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics:	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
Information on toxicological effects:	Micro-Kill Q10 LD50 Dermal Rabbit >5000 mg/kg LC50 Inhalation Rat >25 mg/l/4h Vapor LD50 Oral Rat 5890 mg/kg
Skin corrosion/irritation:	Causes skin irritation. Irritation Corrosion - Skin Micro-Kill Q10 4.496 Primary Skin: Draize, moderately irritating Species: Rabbit
Serious eye damage/Eye irritation:	Causes serious eye damage. Eye: Micro-Kill Q10 Species: - Irritation Corrosion - Eye Micro-Kill Q10 33 Primary Eye Irritation: Draize, moderately irritating Species: Rabbit
Respiratory/Skin Sensitization:	Respiratory Sensitization: Not a respiratory sensitizer. Skin Sensitization: This product is not expected to cause skin sensitization.
Germ cell Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. IARC Monographs. Overall Evaluation of Carcinogenicity: Not listed.

	US. National Toxicology Program (NTP) Report on Carcinogens: Not listed. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not regulated.
Reproductive Toxicity:	This product is not expected to cause reproductive or developmental effects.
Specific Target Organ Toxicity - Single Exposure:	Not classified.
Specific Target Organ Toxicity - Repeated Exposure:	Not classified.
Aspiration hazard:	Not classified.
Chronic Effects:	Prolonged inhalation may be harmful.

Section 12. Ecological Information

Ecotoxicity:	Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
Persistence and degradability:	No data is available on the degradability of this product.
Bioaccumulative potential:	Partition coefficient n-octanol / water (log Kow): Ethyl Hydroxide: -0.31
Mobility in soil:	No data available.
Other adverse effects:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13. Disposal

Disposal Instructions:	Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
Local disposal regulations:	Dispose in accordance with all applicable regulations.
Hazardous Waste Code:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues/unused products:	Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and reclose the container. Agitate vigorously, and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times. Then offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

Contaminated packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	Not Regulated
DOT Classification	Not Regulated
Packing Group	Not Regulated
DOT:	Not regulated as dangerous goods.
IATA:	Not regulated as dangerous goods.
IMDG:	Not regulated as dangerous goods.

Section 15. Regulatory Information

	This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: EPA Reg #106-73 Signal word: DANGER Hazard statement: CORROSIVE. Causes irreversible eye damage and skin burns. Harmful if swallowed.
SARA 311/312:	Refer to Section 2 of the SDS.
SARA 302:	N.A.
SARA 304:	N.A.
SARA 313:	N.A.
TSCA:	All components are listed or exempt.
CERCLA Hazardous Substance List:	N.A.
Clean Air Act (CAA) Section 112, 112 (r):	N.A.
State Regulations:	New Jersey Dept. Of Health RTK: Ethyl Alcohol Pennsylvania RTK: Ethanol Rhode Island RTK: Ethyl Alcohol Massachusetts RTK: Ethanol

Section 16. Other Information

Revision Date	8/1/2019
Legend	N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined
Additional Information:	The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.