



Safety Data Sheet

Medline Micro-Kill NQ5

Section 1. Identification

Product Identifier	Medline Micro-Kill NQ5		
Synonyms	EVSCHM2154 ; Micro-Kill NQ5; MSD_SDS0321; EVSCHM215		
Manufacturer Stock Numbers	EVSCHM215; EVSCHM2154		
Recommended use	N/A		
Uses advised against	Restrictions on use: Do not use in any fashion not specified on the product label.		
Manufacturer Contact Address	Medline 3 Lakes Drive Northfield, IL, 60093 US		
	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 4 ACUTE TOXICITY - ORAL - Category 4 SERIOUS EYE DAMAGE /EYE IRRITATION - Category 1
Signal Word	Danger

Pictogram



Hazard Statements

Causes serious eye damage
Harmful if swallowed
Harmful in contact with skin

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 water.
Immediately call a poison center/doctor.
Rinse mouth.
Specific treatment (see ... on this label)
Take off immediately all contaminated clothing and wash it before reuse.

Prevention

Do not eat, drink or smoke when using this product.
Wear protective gloves/eye protection/face protection.

Storage

Store locked up.

Disposal

Dispose of contents/container to industrial combustion plant.

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic). Causes mild skin irritation (GHS category 3: irritant to skin).

Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

Hazardous ingredients for labelling:

Diocetyl dimethyl ammonium chloride, Tetrasodium EDTA, EDTA, Quaternary ammonium compounds, coco alkyltrimethyl, chlorides

Section 3. Ingredients

CAS	Ingredient Name	Weight %
5538-94-3	Diocetyl dimethyl ammonium chloride	10% - 25%
61789-18-2	Quaternary ammonium compounds, coco alkyltrimethyl, chlorides	10% - 25%
460-00-4	EDTA	1% - 5%
60-00-4	Ethylenediaminetetraacetic Acid	1% - 5%
64-02-8	Tetrasodium EDTA	1% - 5%

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

Section 4. First-Aid Measures

Inhalation:	If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.
Skin contact:	Wash with plenty of soap and water.
Eye contact:	Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Ingestion:	Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.
Indication of any immediate medical attention and special treatment needed:	None.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Water spray, BC-powder, Carbon dioxide (CO ₂).
Unsuitable Extinguishing Media	Water jet.
Hazardous combustion products:	Nitrogen oxides (NO _x), Carbon monoxide (CO), Carbon dioxide (CO ₂).
Advice for firefighters:	In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	For non-emergency personnel: Remove persons to safety. For emergency responders: Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.
Environmental precautions:	Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.
Methods and material for containment and cleaning up:	Advice on how to contain a spill: Covering of drains. Advice on how to clean up a spill: Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder. Appropriate containment techniques: Use of adsorbent materials. Other information relating to spills and releases: Place in appropriate containers for disposal. Ventilate affected area.

Section 7. Handling and Storage

Precautions for safe handling:

Measures to prevent fire as well as aerosol and dust generation:
Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene:

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

Conditions for safe storage, including any incompatibilities:

Protect against external exposure, such as frost.

Packaging compatibilities:

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. See section 16 for a general overview.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Diocetyl dimethyl ammonium chloride	N/A	N/A	N/A
Quaternary ammonium compounds, coco alkyltrimethyl, chlorides	N/A	N/A	N/A
EDTA	N/A	N/A	N/A
Ethylenediaminetetraacetic Acid	N/A	N/A	N/A
Tetrasodium EDTA	N/A	N/A	N/A

Personal Protective Equipment

Goggles, Gloves

Appropriate engineering controls:

General ventilation.

Precautionary Measures

Wear eye/face protection.

Skin protection:

Hand protection:

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/ impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Other protection measures:

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls:

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Green
Odor	Citrus
Odor Threshold	N.D.
Solubility	N.D.
Partition coefficient Water/n-octanol	N.D.
VOC%	N/A
Viscosity	N/A
Specific Gravity	N/A
Density lbs/Gal	0.98
Pounds per Cubic Foot	N/A
Flash Point	N.D.
FP Method	N.D.
pH	7 - 8.5
Melting Point	N.D.
Boiling Point	N.D.
Boiling Range	N.D.
LEL	N/A
UEL	N/A
Evaporation Rate	N.D.
Flammability	Not relevant
Decomposition Temperature	N.D.
Auto-ignition Temperature	N.D.
Vapor Pressure	N.D.
Vapor Density	N.D.

Section 10. Stability and Reactivity

Reactivity:	Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".
Chemical stability:	See below "Conditions to avoid".
Possibility of hazardous reactions:	No known hazardous reactions.
Conditions to avoid:	There are no specific conditions known which have to be avoided.
Incompatible materials:	Oxidizers.
Hazardous decomposition products:	Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

Section 11. Toxicological Information

Information on toxicological effects: Test data are not available for the complete mixture.

Classification procedure: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Acute toxicity	Harmful if swallowed. Harmful in contact with skin.
	Acute toxicity estimate (ATE): Oral: 1,066 mg/kg Dermal: 1,274 mg/kg
Acute toxicity estimate (ATE) of components of the mixture:	<p>Diocetyl dimethyl ammonium chloride CAS-No. 5538-94-3 oral (ATE): 238 mg/kg dermal (ATE): 259 mg/kg</p> <p>Quaternary ammonium compounds, coco alkyltrimethyl, chlorides CAS-No. 61789-18-2 oral (ATE): 684 mg/kg dermal (ATE): 1,300 mg/kg</p> <p>Tetrasodium EDTA CAS-No. 64-02-8 oral (ATE): 1,913 mg/kg</p> <p>EDTA CAS-No. 460-00-4 inhalation: vapor (ATE): 18 mg/l/4h</p>
Skin corrosion/irritation:	Shall not be classified as corrosive/irritant to skin.
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory or skin sensitization:	Shall not be classified as a respiratory or skin sensitizer.
Germ cell mutagenicity:	Shall not be classified as germ cell mutagenic.
Carcinogenicity:	Shall not be classified as carcinogenic.
Reproductive toxicity:	Shall not be classified as a reproductive toxicant.
Specific target organ toxicity - single exposure:	Shall not be classified as a specific target organ toxicant (single exposure).
Specific target organ toxicity - repeated exposure:	Shall not be classified as a specific target organ toxicant (repeated exposure).
Aspiration hazard:	Shall not be classified as presenting an aspiration hazard.

Section 12. Ecological Information

Toxicity:	Very toxic to aquatic life with long lasting effects.
Aquatic toxicity (acute) of components of the mixture:	<p>Diocetyl dimethyl ammonium chloride CAS-No. 5538-94-3 LC50: 0.7 mg/l (fish) 96 h EC50: 0.066 mg/l (aquatic invertebrates) 48 h ErC50: ≥0.122 mg/l (algae) 72 h</p> <p>Quaternary ammonium compounds, coco alkyltrimethyl, chlorides CAS-No. 61789-18-2 LC50: 2.35 mg/l (fish) 96 h EC50: 550 µg/l (aquatic invertebrates) 24 h ErC50: 0.062 mg/l (algae) 72 h</p> <p>Tetrasodium EDTA CAS-No. 64-02-8 LC50: 41 mg/l (fish) 96 h EC50: 140 mg/l (aquatic invertebrates) 48 h</p>

EDTA CAS-No. 460-00-4
LC50: >10 mg/l (fish) 96 h
EC50: 18.8 mg/l (aquatic invertebrates) 72 h
ErC50: >100 mg/l (algae) 72 h

Aquatic toxicity (chronic) of components of the mixture: Diocetyl dimethyl ammonium chloride CAS-No. 5538-94-3
EC50: 0.077 mg/l (aquatic invertebrates) 21 d

Quaternary ammonium compounds, coco alkyltrimethyl, chlorides CAS-No. 61789-18-2
LC50: 94 µg/l (fish) 28 d

Persistence and degradability: N.A.
Bioaccumulative potential: N.A.
Mobility in soil: N.A.
Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.
Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.
Other adverse effects: N.A.

Section 13. Disposal

Waste treatment methods: Waste treatment-relevant information: Solvent reclamation/regeneration.
Sewage disposal-relevant information: Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.
Waste treatment of containers/packages: Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.
Remarks: Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

Section 14. Transport Information

UN Number 1903
UN Proper Shipping Name Disinfectants, liquid, corrosive n.o.s. (Quaternary Ammonium Compounds)
DOT Classification 8
Packing Group II
IMDG - UN Number 1903
IMDG - Proper Shipping Name: Disinfectant, liquid, corrosive, n.o.s. (Quaternary Ammonium Compounds)
IMDG - Hazard Class: 8
IMDG - Packing Group: II
IATA: Not permitted for air transport.
Environmental hazards: Yes (hazardous to the aquatic environment)

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 # 6836-364-37549

Signal word: DANGER

Hazard statement: CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through the skin. 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: Ethylenediaminetetraacetic acid

Clean Air Act (CAA) Section 112, 112 (r): N.A.

New Jersey Right to Know Components: ETHYL ALCOHOL.
ETHYLENEDIAMINETETRAACETIC ACID.

Pennsylvania Right to Know Components: ETHANOL. GLYCINE, N,N'-1,2-ETHANEDIYLBIS[N-(CARBOXYMETHYL)-.

Rhode Island Right to Know Components: ethyl alcohol.

Massachusetts Right to Know Components: ETHYL ALCOHOL. ETHYLENEDIAMINE TETRAACETIC ACID (EDTA).

Section 16. Other Information

Revision Date 10/25/2024

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.