



Safety Data Sheet

Micro-Kill R2

Section 1. Identification

Product Identifier	Micro-Kill R2		
Synonyms	EVSCHM122; MSD_SDS0325		
Manufacturer Stock Numbers	EVSCHM122		
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 - ORAL - Category N/A SERIOUS EYE DAMAGE /EYE IRRITATION - Category 2B SKIN CORROSION/IRRITATION - Category N/A
Signal Word	Warning
Pictogram	
Hazard Statements	Causes eye irritation
Precautionary Statements	

Response If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Prevention Wash hands thoroughly after handling.

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 %
64-02-8	Ethylenediaminetetraacetic Acid, Tetrasodium Salt	1% - 5%
85409-23-0	ALKYL(C12-14)DIMETHYL(ETHYL BENZYL)AMMONIUM CHLORIDE	0.1% - 1%
68391-01-5	Quaternary Ammonium Compounds, Benzyl-C12-18-alkyldimethyl, Chlorides	0.1% - 1%

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 off with soap and water. Get medical attention if irritation develops and persists.

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 advice/attention.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed: Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

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	Do not use water jet as an extinguisher, as this will spread the fire.
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. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
Methods and Materials for Containment and Cleaning up:	<p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see Section 13 of the SDS.</p>
Environmental Precautions:	Avoid discharge into drains, water courses or onto the ground.

Section 7. Handling and Storage

Precautions for safe handling:	Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Do not empty into drains.
Conditions for safe storage, including any incompatibilities:	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Ethylenediaminetetraacetic Acid, Tetrasodium Salt	N/A	N/A	N/A
	ALKYL(C12-14)DIMETHYL(ETHYL BENZYL)AMMONIUM CHLORIDE	N/A	N/A	N/A
	Quaternary Ammonium Compounds, Benzyl-C12-18-alkyldimethyl, Chlorides	N/A	N/A	N/A
Personal Protective Equipment	Goggles, Gloves			
Appropriate Engineering Controls:	General ventilation normally adequate. Provide eyewash station.			
Individual protection measures, such as personal protective equipment:	<p>Eye/face protection: If contact is likely, safety glasses with side shields are recommended.</p> <p>Skin protection: Hand protection: For prolonged or repeated skin contact use suitable protective gloves.</p> <p>Respiratory protection: No personal respiratory protective equipment normally required.</p>			
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	Clear, light blue
Odor	Citrus
Odor Threshold	Not available
Solubility	100%
Partition coefficient Water/n-octanol	Not available
VOC%	N/A
Viscosity	Not available
Specific Gravity	N/A
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	None to Boiling
FP Method	Not available
pH	11.9
Melting Point	Not available
Boiling Point	212°F (100°C)

Boiling Range	Not available
LEL	N/A
UEL	N/A
Evaporation Rate	Not available
Flammability	Not applicable
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 (Weight %): 0.02 %

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: Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Contact with incompatible materials.

Incompatibility (Materials to Avoid): Acids. Oxidizing agents.

Hazardous Decomposition or Byproducts: No hazardous decomposition products are known.

Section 11. Toxicological Information

Information on likely routes of exposure: Eye contact:
Causes eye irritation.

Skin contact:
No adverse effects due to skin contact are expected.

Inhalation:
Prolonged inhalation may be harmful.

Ingestion:
Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics:	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.
Information on toxicological effects:	Micro-Kill R2 LD50 Dermal Rabbit >5000 mg/kg LD50 Oral Rat >5000 mg/kg
Skin corrosion/irritation:	Health injuries are not known or expected under normal use.
Serious Eye Damage/Eye irritation:	Causes eye irritation.
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:	Not classifiable as to carcinogenicity to humans.
	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 an aspiration hazard.

Section 12. Ecological Information

Ecotoxicity:	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence/degradability:	No data is available on the degradability of this product.
Bioaccumulative potential:	No data available.
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:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
- 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:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (see: Disposal instructions)
- Contaminated packaging:** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport Information

- UN Number** N/A
- UN Proper Shipping Name** Not Regulated
- DOT Classification** Not Regulated
- Packing Group** Not Regulated
- 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. No. 1839-220-37549

CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

- 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:** N.A.

Section 16. Other Information

Revision Date

2/5/2020

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.