

**1. Product and Company Identification**

**Product Code:** 4481  
**Product Name:** MICRORID DISINFECTANT  
**Revision:** 06/11/2018  
**Supersedes Revision:** 05/04/2015

**Supplier Information:** TWIN-CHEM INC.  
6175 HICKORY FLAT HWY.  
SUITE 100-344  
CANTON, GA 30115  
**Phone Number:** 800/442-4958

**Website:** www.twinchemicals.com  
**Email address:** sales@twinchemicals.com

**Emergency Contact:** CERTS (Health & Environment Only) **Phone Number:** 800/552-3787

**2. Hazards Identification**

**Serious Eye Damage/Eye Irritation, Category 1**

**Skin Corrosion/Irritation, Category 2**

**Aquatic Toxicity (Acute), Category 2**



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:** H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H401 - Toxic to aquatic life.

**GHS Precaution Phrases:** P264 - Wash hands thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves and eye protection.

**GHS Response Phrases:** P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or physician for treatment advice. Have product container or label with you when calling poison control center or physician.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P321 - Specific treatment see appropriate section on this SDS.  
P332+313 - If skin irritation occurs, get medical advice/attention.  
P362 - Take off contaminated clothing and wash before re-use.

**GHS Storage and Disposal Phrases:** P501 - Dispose of contents/container in accordance with all local, regional, national and international regulations.

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### Potential Health Effects (Acute and Chronic):

- Inhalation:** Causes irritation of the mucous membrane and upper respiratory tract. May cause respiratory tract irritation.
- Skin Contact:** Causes skin irritation. Causes redness and pain.
- Eye Contact:** Causes eye irritation. Causes redness and pain. Lachrymator (substance which increases the flow of tears).
- Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
68131-39-5	Ethoxylated linear alcohol	4.0 -7.0 %
68391-01-5	Quaternary ammonium compounds,benzyl-C12-18-alkyldimethyl, chlorides	4.5 %
64-17-5	Ethyl alcohol {Ethanol}	0.506 %

### 4. First Aid Measures

#### Emergency and First Aid

##### Procedures:

- In Case of Inhalation:** Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid.
- In Case of Skin Contact:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If skin irritation or rash occurs, seek medical advice/attention.
- In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
- In Case of Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
- Note to Physician:** None known.

### 5. Fire Fighting Measures

- Flash Pt:** NP
- Explosive Limits:** LEL: N.A. UEL: N.A.
- Autoignition Pt:** NP
- Suitable Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.
- Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn.
- Flammable Properties and Hazards:** No data available.

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### 6. Accidental Release Measures

<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section.
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### 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	No special handling procedures are required. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale.
<b>Precautions To Be Taken in Storing:</b>	No special storage requirements. Store in a cool, dry place. Keep away from acids.

### 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
68131-39-5	Ethoxylated linear alcohol	No data.	No data.	No data.
68391-01-5	Quaternary ammonium compounds,benzyl-C12-18-alkyldimethyl, chlorides	No data.	No data.	No data.
64-17-5	Ethyl alcohol {Ethanol}	PEL: 1000 ppm	TLV: 1000 ppm	No data.
<b>Respiratory Equipment (Specify Type):</b>	Respirator protection is not normally required. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.			
<b>Eye Protection:</b>	Wear chemical splash goggles. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.			
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure.			
<b>Other Protective Clothing:</b>	Protective garments not normally required. Wear appropriate protective clothing to prevent skin exposure.			
<b>Engineering Controls (Ventilation etc.):</b>	There are no special ventilation requirements. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.			

### 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas [ X ] Liquid [ ] Solid
<b>Appearance and Odor:</b>	Fragrant odor. Clear red liquid
<b>Freezing Point:</b>	< 0.00 C
<b>Boiling Point:</b>	> 100.00 C
<b>Decomposition Temperature:</b>	NE
<b>Autoignition Pt:</b>	NP
<b>Flash Pt:</b>	NP
<b>Explosive Limits:</b>	LEL: N.A. UEL: N.A.
<b>Specific Gravity (Water = 1):</b>	~ 1.03 at 25.0 C
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NE
<b>Vapor Density (vs. Air = 1):</b>	NE
<b>Evaporation Rate:</b>	> 1 (H2O=1)
<b>Solubility in Water:</b>	100%

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Saturated Vapor Concentration: NE  
Viscosity: Thin  
pH: 10.7 - 12.7  
Percent Volatile: < 89.0 % by weight.  
VOC / Volume: 0.0000 G/L

### 10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]  
Conditions To Avoid - Instability: Incompatible materials.  
Incompatibility - Materials To Avoid: No data available.  
Hazardous Decomposition or Byproducts: Carbon monoxide, irritating and toxic fumes and gases, Carbon dioxide.  
Possibility of Hazardous Reactions: Will occur [ ] Will not occur [ X ]  
Conditions To Avoid - Hazardous Reactions: No data available.

### 11. Toxicological Information

Toxicological Information: No data available.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
68131-39-5	Ethoxylated linear alcohol	n.a.	n.a.	n.a.	n.a.
68391-01-5	Quaternary ammonium compounds,benzyl-C12-18-alkyldimethyl, chlorides	n.a.	n.a.	n.a.	n.a.
64-17-5	Ethyl alcohol {Ethanol}	n.a.	1	A4	n.a.

### 12. Ecological Information

No data available.

### 13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
RCRA P-Series: None listed.  
RCRA U-Series: None listed.

### 14. Transport Information

#### LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: DISINFECTANTS, LIQUID, CORROSIVE, N.O.S.

DOT Hazard Class: 8 CORROSIVE

UN/NA Number: UN1903

Packing Group: III



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### 15. Regulatory Information

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
68131-39-5	Ethoxylated linear alcohol	No	No	No
68391-01-5	Quaternary ammonium compounds,benzyl-C12-18-alkyldimethyl, chlorides	No	No	No
64-17-5	Ethyl alcohol {Ethanol}	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
68131-39-5	Ethoxylated linear alcohol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
68391-01-5	Quaternary ammonium compounds,benzyl-C12-18-alkyldimethyl, chlorides	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
64-17-5	Ethyl alcohol {Ethanol}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

### 16. Other Information

**Revision Date:** 06/11/2018  
**Preparer Name:** Regulatory Affairs

**Hazard Rating System:**

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PPE	B

**HMIS:**

**Additional Information About This Product:** EPA REG. NO. 1839-95-74808 / EPA EST. NO. 58880-GA-01

**Company Policy or Disclaimer:** The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.