

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : Ravicide Liquid Sterilant  
 Restrictions on use : Industrial and professional use  
 Recommended use : Professional use cleaner and disinfectant

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Alkaline disinfectant

#### 1.3. Details of the supplier of the safety data sheet

JDM Technology Inc  
 20380 Corsair Blvd,  
 Hayward, CA 9454, US

Telephone Number for Information: 1-888-388-7536 (Customer Service)  
 1-510-455-8773

Corporate Website: [www.jdmtechusa.com](http://www.jdmtechusa.com)

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#### 1.4. Emergency telephone number

Emergency number : US Emergency Telephone No.1-510-455-8778

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Acute Tox. 4 (Oral) H302  
 Skin Corr. 1A H314  
 Eye Dam. 1 H318

#### 2.2. Label elements

Hazard statements (GHS-US) : H302 - Harmful if swallowed  
 H318 - Causes serious eye damage

Precautionary statements (GHS-US) : P103 – Read label before use  
 P260 - Do not breathe mist, spray, vapours  
 P264 - Wash hands thoroughly after handling  
 P270 - Do not eat, drink or smoke when using this product.  
 P280 - Wear eye protection, protective clothing, protective gloves  
 P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Potassium hydroxide	(CAS No) 1310-58-3	1.1	Acute Tox. 3 (Oral), H302 Skin Corr. 1A, H314
H2O		98.9	

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately get medical attention. If not breathing, give artificial respiration.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. In all cases of doubt, or when symptoms persist, seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Give water to drink if victim completely conscious/alert. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Causes eye damage. Corrosive to eyes.
Symptoms/injuries after inhalation	: Inhalation of mists is extremely irritating to mucous membranes and upper respiratory tract.
Symptoms after skin contact	: Effects of skin contact may cause irritation
Symptoms/injuries after eye contact	: May causes serious eye damage. Direct contact may cause severe irritation, pain and burns, possibly severe, and permanent damage including blindness.
Symptoms/injuries after ingestion	: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protective equipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not breathe fumes, vapors. Stop leak if safe to do so. Avoid contact with eyes.

##### 6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing. Wear protective gloves and eye/face protection. Boots.
Emergency procedures	: Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
Unsuitable extinguishing	: None known.
Specific hazards during firefighting	: Not flammable or combustible.
Special protective equipment for firefighters	: Use personal protective equipment.
Risk of explosion	: Not available.

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect in closed containers for disposal. Local authorities should be advised if significant spillages cannot be contained. Neutralize spill carefully with any weak acid and flush remainder with plenty of water. Wash contaminated areas with large quantities of water to a sanitary sewer, if in accordance with local, state or national legislation. Do not allow to enter into surface water or drains.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Read label before use. Provide good ventilation in process area to prevent formation of vapor. Keep container tightly closed to avoid moisture absorption and contamination. Do not breathe gas, fumes, vapor or spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Never return unused material to original container.

Hygiene measures : Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Separate working clothes from town clothes. Launder separately.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations. A washing facility/water for eye and skin cleaning purposes should be present. Provide adequate ventilation.

Storage conditions : Keep out of reach of children. Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Incompatible materials : Acids. Oxidizing agents. Organic compounds. Halogenated compounds. Chromium. Magnesium. Zinc. On contact with ordinary metals (steel, galvanized, aluminum) corrosion may occur and generate highly flammable hydrogen gas.

Storage area : Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Local exhaust ventilation is recommended to maintain vapor level below the threshold limit value (TLV).

Personal protective equipment : Avoid all unnecessary exposure. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Protective clothing. Gloves. Protective goggles.



Hand protection : Wear protective gloves, rubber or plastic gloves.

Eye protection : Safety glasses if necessary.

Skin and body protection : Wear suitable protective clothing. Rubber apron, boots.

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Respiratory protection	: Work in well-ventilated zones or use proper respiratory protection. Wear appropriate mask.
Environmental exposure controls	: Avoid discharge to the environment.
Other information	: Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear
Colour	: Clear
odour	: No data available
Odour threshold	: No data available
pH	: 13.2
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: completely soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

On contact with ordinary metals (steel, galvanized, aluminum) corrosion may occur and generate. Acids. Oxidizing agent. Organic materials. Halogenated compounds. Magnesium. Zinc. Chromium.

#### 10.6. Hazardous decomposition products

Potassium Oxide

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Skin corrosion/irritation	: Skin exposure may cause mild irritation, pH:13.2
Serious eye damage/irritation	: Eye exposure may cause mild irritation. pH:13.2
Respiratory or skin sensitization	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Not classified Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>Ravicide</b>	
Acute Toxicity	No information available

<b>Ravicide</b>	
Chronic Toxicity	No information available

#### 12.2. Persistence and degradability

<b>Ravicide</b>	
Persistence and degradability	No information available

<b>Potassium hydroxide (1310-58-3)</b>	
Log Pow	No information available

#### 12.3. Mobility in soil

No additional information available

#### 12.4. Other adverse effects

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Dispose of empty containers and wastes safely.
Ecology - waste materials	: Avoid release to the environment.
Disposal methods	: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

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### SECTION 14: Transport information

In accordance with DOT  
Transport document description : UN1814, Potassium hydroxide solution  
UN-No.(DOT) : 1814  
DOT NA no. : UN1814  
DOT Proper Shipping Name : Potassium hydroxide solution  
Department of Transportation (DOT) Hazard Classes : Not Regulated

#### Additional information

Other information : No additional information available

#### ADR

Transport document description : No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

Ravicide General Liquid Sterilant	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA: Section 311/312 Hazard Classes- Immediate (acute) health hazard	

### SECTION 16: Other information

Revision Date : 03/30/2019  
Other information : None.

For any additional information, please contact JDM Technology Inc. at 1-510-455-8778 or email at [info@jdmtechusa.com](mailto:info@jdmtechusa.com).

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