

# SAFETY DATA SHEET

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## MOLD & FUNGI REMOVER

**Version: 4.0**

Based on Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No. 1907/2006 of the European Parliament and the Council on the registration, evaluation, authorization, and restriction of chemicals (REACH).

Date of preparation: 2009.01.20

Date of update: 2024.12.20

### Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY IDENTIFICATION

#### 1.1. Product identifier:

Mold & Fungi Remover for the control of mold fungi on mineral substrates.

REACH registration number: the product is a multi-component mixture. No registration required.

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

Product for professional disinfection of mold on walls inside and outside buildings.

Uses advised against: no information.

#### 1.3. Supplier details of the safety data sheet:

**Mineral Stains LLC**

Jacksonville, FL 32223

Email: [info@mineralstains.com](mailto:info@mineralstains.com)

Phone: 904-896-7200

Emergency number: 911

#### 1.4. Emergency telephone number: 911 or nearest local fire department.

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### Section 2. HAZARD IDENTIFICATION

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

- Classification according to Regulation (EC) No. 1272/2008:  
H315-Skin Irrit. 2 - Causes skin irritation.  
H319-Eye Irrit. 2 - Causes eye irritation.  
H335-STOT Single Exposure 3 - May cause respiratory irritation.  
Route of exposure: inhalation.  
Environmental impact: not applicable.

#### 2.2. Label elements:

Pictogram: GHS07

Signal word: WARNING

Contains: didecyldimethylammonium chloride (CAS: 7173-51-5, EC: 230-525-2),

ethanol (CAS: 64-17-5, EC: 200-578-6).

H315-Causes skin irritation.  
H319-Causes eye irritation.  
H335-May cause respiratory irritation.  
P102-Keep out of reach of children.  
P261-Avoid inhalation of mist/vapors/spray.  
P264-Wash hands thoroughly after handling.  
P271-Use only outdoors or in a well-ventilated area.  
P280-Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352-IN CASE OF SKIN CONTACT: Wash with plenty of water and soap.  
P304+P340-IN CASE OF INHALATION: Move the person to fresh air and ensure they rest in a position that allows free breathing.  
P305 + P351 + P338-IN CASE OF EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.  
P312-If feeling unwell, contact POISON CENTER or doctor.  
P362-Take off contaminated clothing and wash before reuse.  
P332+P313-If skin irritation occurs: Seek medical advice/attention.  
P337+P313-If eye irritation persists: Seek medical advice/attention.  
P403+P233-Store in a well-ventilated place. Keep container tightly closed.  
P501-Dispose of contents/container to a licensed waste disposal company.  
2.3. Other hazards: The product does not meet the PBT or vPvB criteria according to Annex XIII of the REACH Regulation.

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### **Section 3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.1. Substances:

**Ingredient** CAS Number % by weight

Didecyldimethylammonium chloride 7173-51-5 0.5

Ethanol 64-17-5 0.05-0.25

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### **Section 4. FIRST AID MEASURES**

4.1. Description of first aid measures:

Note: First, remove the affected person from the contaminated environment.

Position them on their left side with their head facing downward.

**Inhalation:** Immediately remove the affected person from the contaminated air. Ensure rescuers are equipped with respiratory protection. Check for breathing. Tilt the head back to clear the airway. Listen for breathing by placing your ear near the patient's nose and mouth. If no breathing, immediately begin artificial respiration and, if necessary, perform chest compressions. Seek medical attention.

**Ingestion:** Never induce vomiting. Do not give milk or fats. If the person is unconscious, place them in the recovery position, check if they are breathing, and provide artificial respiration if necessary. If the person is conscious, give 2 packets (10g) of activated charcoal mixed in 500 ml

of water, followed by three doses of 1 packet (5g) in 100 ml of water every 20 minutes until hospital arrival. Ensure the person remains calm, lying down, and warm.

Eye contact: Rinse the affected eye with plenty of water for at least 10 minutes. If the product is not completely removed, repeat the rinse for another 10 minutes. Seek ophthalmologist assistance.

Skin contact: Remove contaminated clothing and footwear immediately. Rinse the affected area with plenty of water for at least 10 minutes. Continue rinsing for another 10 minutes if chemical traces remain. If skin irritation persists, consult a dermatologist.

#### 4.2. Most important symptoms and effects:

Eye irritation, skin irritation, respiratory irritation. Inhalation of vapors may cause headaches, nausea, and vomiting. Eye contact causes a burning sensation. Ingestion may cause irritation of the digestive system, nausea, vomiting, and diarrhea.

#### 4.3. Immediate medical attention and special treatment:

Show the safety data sheet or label/package to medical personnel.

Treatment: Symptomatic and supportive care.

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## **Section 5. FIRE-FIGHTING MEASURES**

### 5.1. Suitable extinguishing media:

Use CO2 extinguishers, ABC or BC dry powder extinguishers, foam extinguishers, or liquid extinguishers with additional aqueous solutions.

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

The product is non-flammable. In cases of incomplete combustion or pyrolysis, phenolic compounds and carbon oxides may be released. These decomposition products should be treated as potentially hazardous substances, and appropriate precautions should be taken. Avoid inhaling smoke and use adequate ventilation.

### 5.3. Advice for fire-fighting teams:

In case of fire, alert those in the surrounding area, evacuate non-essential personnel, and call the fire department, emergency response teams, and police. Only trained individuals should participate in firefighting efforts, equipped with appropriate protective gear and independent respiratory equipment. Small fires should be extinguished with CO2 or dry powder extinguishers (ABC or BC). Large fires should be extinguished with foam or water spray. Cool tanks and other containers exposed to high heat with water, and if possible, remove them from the danger area. Prevent firefighting runoff from entering drains or water bodies. Dispose of firefighting waste according to local regulations.

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## Section 6. ACCIDENTAL RELEASE MEASURES

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

Alert the surrounding area about the spill. Remove all personnel not involved in the cleanup from the danger zone.

**Reproductive Toxicity:** Based on available data, the criteria are not met.

**Target Organ Toxicity – Single Exposure:** Based on available data, the criteria are not met.

**Acute Toxicity:** Based on available data, the criteria are not met.

**Target Organ Toxicity – Repeated Exposure:** Based on available data, the criteria are not met.

**Aspiration Hazard:** Short-term exposure causes irritation to the nose, throat, and lungs, and a choking sensation.

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6.2. **Environmental Protection Precautions:** Limit leaks with sand or earth. Prevent contamination of surfaces and groundwater. Wash water and rinsing liquids must be minimized and cannot be allowed to infiltrate into the ground, penetrate watercourses, or groundwater. In the event of water contamination, or if it enters the drainage system or contaminates surrounding land or crops, notify the relevant authorities.

6.3. **Methods and Materials to Prevent Contamination Spread and for Clean-up:**

Immediately collect the substance in a container. The product is in liquid form; prevent it from reaching the drainage system. Collect the product in a container for reuse or disposal. In some cases, the product may be absorbed by chemically inert materials such as sand. After collecting the product in a container, rinse the surface and materials that came into contact with the liquid with water.

6.4. **References to Other Sections:** Refer to Sections 8 and 13 of the Safety Data Sheet.

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7.1. **Precautions for Safe Handling:**

- **Prevention of poisoning:** Ensure effective ventilation. Avoid direct contact with the product, avoid eye contamination. Avoid contamination of clothing. While using the product, do not eat, drink, or take medicine, avoid inhaling vapors, observe personal hygiene rules, use appropriate protective clothing and personal protective equipment, and work in a ventilated area. Store in a closed container. No unauthorized persons should be present in working and storage areas, particularly children, pregnant women, ill or elderly individuals. Protect children from access to the product.
- **Prevention of fire and explosion:** The product is non-flammable. Ensure easy access to fire-fighting and rescue equipment in areas of use and storage.

7.2. **Conditions for Safe Storage, Including Information on Incompatibilities:** The product should be stored in dry, adequately ventilated areas in tightly sealed containers. The storage period should not exceed 12 months from the production date. Store out of reach of children. Do

not store with food, beverages, or animal feed. During loading operations, protective clothing and gloves should be worn. Personnel handling the product should be trained in the chemical properties of the product and the associated hazards.

7.3. **Specific Uses:** Not applicable.

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#### 8.1. **Control Parameters:**

Ingredients subject to control: ethanol: OEL: 1900 mg/m<sup>3</sup> for 8 hours.

#### 8.2. **Exposure Control:**

Appropriate technical controls: In the workplace, ensure body wash stations and eye wash stations (safety showers and eye fountains). Ensure proper ventilation. The choice of protective equipment depends on exposure to the product.

- **Hand protection:** Protective gloves.
  - **Eye protection:** Protective goggles.
  - **Respiratory protection:** Protective masks.
  - **Skin protection:** Protective clothing made from dense fabric. Protective aprons.
- Environmental exposure control: Consider implementing precautions to secure the area around storage tanks. Prevent the release of large amounts of the product into groundwater, sewers, wastewater, or soil.
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#### 9.1. **Physical and Chemical Properties**

- Appearance: Clear liquid
- Odor: Characteristic of biocidal product
- pH: 5-7
- Flashpoint: Not applicable
- Flammability: Non-flammable
- Relative density at 20°C: 0.97 - 1.07 g/m<sup>3</sup>
- Solubility in water: Miscible
- Self-ignition temperature: Not applicable
- Viscosity: Not available
- Explosive properties: No fire or explosion hazard under normal conditions.

**Section 9.2. Other Information: No data available.**

#### **Section 10. STABILITY AND REACTIVITY**

10.1. Reactivity: The substance is non-reactive.

10.2. Chemical stability: Stable, does not decompose when used under recommended conditions.

10.3. Possibility of hazardous reactions: No data available.

10.4. Conditions to avoid: No data available.

10.5. Incompatible materials: No data available.

10.6. Hazardous decomposition products: No data available.

## Section 11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes defined in Regulation (EC) No 1272/2008: No data available.

11.2. Information on toxicological effects:

- **Acute toxicity:**  
Didecyldimethylammonium chloride:  
LD50 - oral rat: 238 mg/kg, LD50 - skin rabbit: 3342 mg/kg
- **Skin corrosion/irritation:** Prolonged or frequent contact may cause skin irritation.
- **Serious eye damage/eye irritation:** May cause irritation of the eye mucous membranes (burning, redness, tearing) or temporary eye irritation.
- **Respiratory or skin sensitization:** Based on available data, the criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the criteria are not met.
- **Carcinogenicity:** Based on available data, the criteria are not met.
- **Reproductive toxicity:** Based on available data, the criteria are not met.
- **Specific target organ toxicity (single exposure):** Based on available data, the criteria are not met.
- **Acute toxicity:** Based on available data, the criteria are not met.
- **Specific target organ toxicity (repeated exposure):** Based on available data, the criteria are not met.
- **Aspiration hazard:** Short-term exposure causes irritation to the nose, throat, and lungs, and a feeling of suffocation.

## Section 12. ECOLOGICAL INFORMATION

12.1. Toxicity:

- **Aquatic environment - Didecyldimethylammonium chloride:**
  - Acute toxicity to freshwater fish: LC50 – 0.19 mg/l/96 h (Pimephales promelas)
  - Acute toxicity to daphnia and other aquatic invertebrates: EC50 - 0.094 mg/l/48 h (Daphnia magna)
  - Acute toxicity to algae: EC50 – 0.026 mg/l/96 h
  - Chronic toxicity to daphnia and other aquatic invertebrates: NOEC - 0.01 mg/l/21 days (Daphnia magna)
  - Chronic toxicity to freshwater fish: NOEC – 0.1032 mg/l/34 days (Danio rerio)
  - Sediment: No toxicity studies on sediment organisms (scientifically unjustified).
- **Terrestrial environment:**
  - No toxicity studies on invertebrates, plants, or birds (scientifically unjustified).

12.2. Persistence and degradability: The product is easily biodegradable.

12.3. Bioaccumulation potential: BCF (for didecyldimethylammonium chloride) – 81, potentially low.

12.4. Soil mobility: No data available.

12.5. PBT and vPvB assessment results: Does not meet the criteria according to Annex XIII of

Regulation REACH.

12.6. Endocrine disrupting properties: No data available.

12.7. Other harmful effects: Prevent the product from entering groundwater, surface waters, soil, and sewage systems.

### **Section 13. WASTE DISPOSAL**

13.1. Waste disposal methods:

- Group: 08 Waste from the production, preparation, trade, and use of protective coatings (paints, varnishes, ceramic enamels), putties, adhesives, sealants, and printing inks.
- Subgroup: 08 04 Waste from the production, preparation, trade, and use of adhesives and sealants (including waterproofing agents).
- Type: Other unspecified waste. Code: 08 04 99.
- Packaging according to type: 15 01 02 – plastic packaging.
- **Disposal of surplus or waste:** Residues or spilled product should be disposed of in accordance with the Waste Act of December 14, 2012 (Journal of Laws 2013, item 21, as amended) and the Ministry of Environment Regulation of December 8, 2010, on the templates for waste record documents (Journal of Laws No. 249, item 1673). A product can be considered waste only when it is completely unsuitable for reuse. Waste product should be placed in a location indicated by environmental protection authorities for disposal. Do not allow the product to enter the sewage system, surface waters, or groundwater; secure the sewage manholes. If possible, stop the leak (close the liquid flow, seal, place damaged packaging in a replacement container). Spilled product should be covered with absorbent material, e.g., sand, and collected in an appropriately labeled, sealed waste container. Dispose of the collected waste according to applicable regulations. In case of large product release or environmental contamination, notify the relevant authorities and chemical emergency services.
- **Disposal of packaging:** Empty packaging should be stored in a designated place until an appropriate transport batch is gathered. Collected packaging should be delivered to a company engaged in its recovery or disposal. Recycling or disposal of packaging waste should be carried out in accordance with applicable regulations (Act of June 13, 2013, on packaging and packaging waste management, Journal of Laws 2013, item 888). Reusable packaging can be reused after cleaning.

### **Section 14. TRANSPORT INFORMATION**

The product is not subject to regulations for the transport of hazardous materials (RID, ADR, IMDG) and is not classified as hazardous.

Note: During transport, avoid freezing temperatures – the product freezes and irreversibly loses its functional properties at temperatures below 0°C.

### **Section 15. REGULATORY INFORMATION**

15.1. Specific legal provisions on safety, health, and environmental protection related to the substance or mixture:

- Act of February 25, 2011, on chemical substances and mixtures (Journal of Laws 2015, item 1203, as amended).

- Regulation of the Ministry of Health of April 20, 2012, on the labeling of hazardous substance and mixture packaging (Journal of Laws 2015, item 450, as amended).
- Act of December 14, 2012, on waste (Journal of Laws 2013, item 21, as amended).
- Ministry of Environment Regulation of December 12, 2014, on the templates for waste record documents (Journal of Laws 2014, item 1973).
- Act of June 13, 2013, on packaging and packaging waste management (Journal of Laws 2013, item 888).
- Act of April 27, 2001, Environmental Protection Law (Journal of Laws 2013, item 1232, as amended).
- Act of August 19, 2011, on the transport of hazardous goods (Journal of Laws 2011, No. 227, item 1367, as amended).
- Ministry of Labor and Social Policy Regulation of June 6, 2014, on the highest permissible concentrations and intensities of harmful health factors in the work environment (Journal of Laws 2014, item 817, as amended).
- Ministry of Labor and Social Policy Regulation of September 26, 1997, on general safety and hygiene at work (Journal of Laws 2003, No. 169, item 1650, as amended).
- Ministry of Interior and Administration Regulation of June 7, 2010, on fire protection of buildings, other construction objects, and areas (Journal of Laws No. 109, item 719).
- Ministry of Health Regulation of February 2, 2011, on the examination and measurement of harmful health factors in the work environment (Journal of Laws 2011, No. 33, item 166).
- Ministry of Health Regulation of December 23, 2013, amending the regulation on the criteria and methods for classifying chemical substances and mixtures (Journal of Laws 2014, item 6).
- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws 2015, item 882).
- Ministry of Environment Regulation of December 9, 2014, on the list of wastes (Journal of Laws 2014, item 1923).
- Water Law (Journal of Laws 2015, item 469, as amended).
- Ministry of Health and Social Care Regulation of May 30, 1996, on the conduct of medical examinations for employees, the scope of preventive health care for employees, and medical certificates issued for purposes specified in the Labor Code (Journal of Laws No. 69, item 332 of 1996) as amended.
- Regulation of the Council of Ministers of August 24, 2004, on the list of prohibited work for minors and the conditions of their employment for certain types of work (Journal of Laws No. 200, item 2047).
- Act of July 29, 2005, on combating drug addiction (Journal of Laws 2012, No. 124, as amended).

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