

MSDS: Dezcal™ Activated Scale Remover (an Urnex® Brand product)

August 2005

1. Product and Company Identification

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| Product Name: | Dezcal™ Activated Scale Remover (an Urnex® Brand product) |
| General Use: | For removal of mineral scale coffee and espresso brewing and serving equipment. |
| Product Description: | Blended white crystalline powder. |
| Manufacturer: | Urnex Brands, Inc. 170 Ludlow Street, Yonkers, NY 10705 USA Tel. 914-963-2042 Urnex Brands, Inc. 29 Harley Street, London, W1G 9QR, UK Tel. +44 020 7927 6881 |
| Emergency Contact: | 800-424-9300 (USA), 001-703-527-3887 (INTERNATIONAL COLLECT ACCEPTED) |
| Date Prepared | August 1, 2005 |

2. Composition/Information on Ingredients

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|---------------|-----------|-------------------------------------|
| Material | CAS# | LD-50-LC50 Mixture: LD50 (oral rat) |
| Sulfamic Acid | 5329-14-6 | 3160 mg/kg |

3. Hazards Identification

This product is classified as an irritant.

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| Emergency Overview: | Product is a blended, white powder. |
| Effects of Overexposure: | May cause skin and eye irritation. If ingested, may cause gastric irritation reaction. |
| Eye: | May cause slight irritation. |
| Skin: | Irritating to the skin. |
| Ingestion: | Irritating to the gastric tract. |
| Inhalation: | May cause irritation |

4. First Aid Measures

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| Eye: | In case of contact, flush with water for at least 15 minutes. Seek medical attention if irritation persists. |
| Skin: | Flush thoroughly with water and seek medical attention if irritation persists. |
| Ingestion: | Do not induce vomiting. If ingested, drink large quantities of water and seek medical advice. |
| Inhalation: | Remove to fresh air. |

5. Fire Fighting Measures

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| Flash Point: | Non- Flammable |
| LEL: | Not determined |
| UEL: | Not determined |
| Extinguishing Media: | Foam, carbon dioxide, powder, and water spray. |
| Firefighting Instructions: | Cool fire exposed containers with spray. |
| Fire Fighting Equipment | Must wear approved self-contained breathing apparatus. |
| Unusual Fire & Explosive Hazards: | None |

6. Accidental Release Measures

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| Land Spill: | Sweep material into one area being careful not to allow disposal of the product. Flush remaining spill with large volume of cold water. Avoid excessive dispersment into air. |
| Waste Disposal Methods: | Can be disposed in regular washing procedure. |

7. Handling and Storage

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| General Storage: | Store in a cool, dry place. Keep container closed. |
| Storage Temperature: | Ambient (between 40 F and 100 F). |
| Other Precautions: | Avoid contact with skin and eyes. Wash thoroughly after handling. |

8. Exposure Controls / Personal Protection

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| General Hygiene: | There are no known hazards associated with this material when used as recommended. |
| Ventilation: | Use in a well ventilated area. |
| Respiratory: | Do not inhale. If product becomes airborne wear suitable face protection. |
| Protective Clothing: | Wear chemical resistance gloves especially when working with large quantities. |
| Eye Protection: | Avoid contact with eyes. Wear suitable eye protection. |
| Other Protective: | None required. |

9. Physical and Chemical Properties

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| Boiling Range: | NA |
| Vapor Density: | NA |
| Evaporation Rate: | NA |
| Solubility in Water: | Complete |
| Melting Point: | >300 degrees F |
| Odor: | None |
| Specific Gravity: | NA |
| PH 1% | 2.0 |
| Appearance: | White crystalline powder |

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| Flash Point: | Non- Flammable |
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10. Reactivity

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|---------------------------|---|
| Stability: | Stable. |
| Hazardous Polymerization: | Will not occur |
| Incompatibility: | Oxidizers and highly alkaline materials. |
| Conditions to Avoid: | Mix only with water. Avoid strong oxidizing agents like chlorine. |
| Hazardous Decomposition: | Incomplete combustion may yield carbon monoxide and soot. Burning can produce carbon monoxide, carbon dioxide, and oxides of phosphorous. |

11. Toxicological Information

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| Reported Human Effects: | No human data are available |
| Reported Animal Effects: | See LD-50/LC-50 Studies on ingredients in section 2. |

12. Ecological Information

No data are available on the adverse effects of this material on the environment. The manufacturer will fulfill all requests for any ecological data that is available on the various components of this product.

13. Disposal Considerations

Dispose of safely in accordance with applicable laws and regulations.

14. Transport Information

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| Proper Name: | Dezcal™ Activated Scale Remover |
| Transport: | Preparation Not Regulated Single component ingredient is UN-Nr.: 2967, Class 8, Packing Group III |

Hazardous Materials Identification System Rating (HMIS):

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|---------------------|---|---------------------------------|
| HEALTH | 1 | Slight Hazard |
| FLAMMABILITY | 0 | Minimal Hazard |
| REACTIVITY | 0 | Minimal Hazard |
| PERSONAL PROTECTION | F | Safety Glasses, Chemical Gloves |

15. Regulatory Information

Inventory Status

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| United States (TSCA) | All ingredients are exempt from listing. |
| European Union (EINECS) | All ingredients are exempt from listing. |

Labeling

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| Hazard Symbol: | Xi Irritant |
| Product Contains: | Citric Acid, Aluminum Salts, Sulfamic Acid |
| R-Sentences | |
| | R22 Harmful if swallowed. |
| | R36/38 Irritating to eyes and skin. |
| S-Sentences | |
| | S2 Keep out of the reach of children. |
| | S22 Do not breathe dust. |
| | S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| | S28 After contact with skin, wash immediately with plenty of water. |
| | S46 If swallowed, seek medical advice immediately and show this container or label. |

16. Other Information

This product is for sale and use by professional personal only.

Keep out of reach of children. It is a violation of federal law to use this product in a manner inconsistent with its label.

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| Usage Guidelines: | Use 200 gram (7oz) of product per 3.8 liters (1 gallon) of hot water. Can be used in greater concentration. Rinse thoroughly after use. |
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NOTE: The information in this MSDS is obtained from sources which are believed to be reliable. However, the accuracy or completeness thereof is not guaranteed. This information is furnished without warranty, expressed or implied. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, Urnex Brands, Inc. assumes no liability for the loss and damage incurred from the proper or improper use of this product.