

**MATERIAL SAFETY DATA SHEET**

**D-LIME-R**

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

| IDENTITY AND MANUFACTURER'S INFORMATION   |  |  |               |  |                 |              |
|---|--|--|---------------|--|-----------------|--------------|
| NFPA Rating: Health-3; Flammability-0; Reactivity-0; Special-   |  | HMIS Rating: Health-3; Flammability-0; Reactivity-1; Personal Protection-c   |               |  |                 |              |
| Manufacturer's Name: Bestway Products<br>Address: 333 west 700 south<br>Salt Lake City, Ut. 84101   |  | DOT Hazard Classification: compounds, cleaning liquid, (phosphoric acid), 8, NA 1760, PG III<br>Identity (trade name as used on label): D-Lime-R                                     |               |  |                 |              |
| Date Prepared: 2-3-00 Prepared By: Cody B   |  | MSDS Number: 8   |               | Revision- 2 (02.25.2005)   |                 |              |
| Information Calls: (801)328-4818  |  | NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA  |               |  |                 |              |
| EMERGENCY RESPONSE NUMBER: 1(800)255-3924   |  |  |               |  |                 |              |
| SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION   |  |  |               |  |                 |              |
| COMPONENTS-CHEMICAL NAMES AND COMMON NAMES<br>(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)   |  | CAS Number   | SARA III LIST | OSHA PEL (ppm)   | ACGIH TLV (ppm) | % (optional) |
| Phosphoric Acid   |  | 7664-38-2  | X             | 1mg/m3   | 1mg/m3          |              |
| Hydroxyacidic Acid  |  | 79-14-1  | X             | N/E  | N/E             |              |
| Glycol Ether E.B.   |  | 111-76-2   | X             | 25   | 25              |              |
| Dodecylbenzenesulfonic acid   |  | 27176-87-0   |               | N/D  | N/D             |              |
| SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS   |  |  |               |  |                 |              |
| Boiling Point: > 212: °F  |  | Specific Gravity (H2O=1): 1.2  |               |  |                 |              |
| Ph: 0   |  | Vapor Pressure: N/D  |               |  |                 |              |
| Vapor Density (Air = 1):  |  | Evaporation Rate ( ethyl ether = 1): < 1   |               |  |                 |              |
| Solubility in Water: 100%   |  | Water Reactive: No   |               |  |                 |              |
| Appearance and Odor: Tan Liquid with heavy acid odor  |  |  |               |  |                 |              |
| SECTION 3 - FIRE AND EXPLOSION HAZARD DATA  |  |  |               |  |                 |              |
| FLAMMABILITY: Not flammable   |  | Auto Ignition Temperature<br>N/A   |               | Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A |                 |              |
| FLASH POINT AND METHOD USED: N/A-water base   |  | SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus. Use water fog to cool containers to prevent rupturing & exploding containers. Provide shielding for personnel. |               |  |                 |              |
| EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide, water.  |  | Unusual Fire & Explosion Hazards: May produce hydrogen gas from contact with some metals   |               |  |                 |              |
| SECTION 4 - REACTIVITY HAZARD DATA  |  |  |               |  |                 |              |
| STABILITY [ X ] STABLE [ ] UNSTABLE   |  | HAZARDOUS POLYMERIZATION [ ] WILL [ X ] WILL NOT OCCUR   |               |  |                 |              |
| Incompatibility (Mat. to avoid): Cyanides, Strong Alkalies  |  | Conditions to Avoid:   |               |  |                 |              |
| Hazardous Decomposition Products: none  |  |  |               |  |                 |              |
| SECTION 5 - HEALTH HAZARD DATA  |  |  |               |  |                 |              |
| PRIMARY ROUTES OF ENTRY: [ ] INHALATION [ x ] INGESTION [ x ] SKIN ABSORPTION [ x ] EYE [ ] NOT HAZARDOUS   |  |  |               |  |                 |              |
| ACUTE EFFECTS   |  |  |               |  |                 |              |
| Inhalation: Excessive inhalation of vapors can cause nasal & respiratory irritation.  |  |  |               |  |                 |              |
| Eye Contact: May cause eye or skin burns.   |  | Skin Contact: May cause eye or skin burns.   |               |  |                 |              |
| Ingestion: Severe gastrointestinal irritation.  |  |  |               |  |                 |              |
| CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of this mixture) Multiple areas of superficial destruction of epidermis or dermatitis. |  |  |               |  |                 |              |
| Medical Conditions Generally Aggravated by Exposure: N/A  |  |  |               |  |                 |              |
| EMERGENCY FIRST AID PROCEDURES  |  |  |               |  |                 |              |
| Eye Contact: Flush with water for 15 minutes seek medical attention immediately.  |  |  |               |  |                 |              |
| Skin Contact: Wash with soap and water seek medical attention if irritation persists.   |  |  |               |  |                 |              |
| Inhalation: Remove to fresh air.  |  |  |               |  |                 |              |
| Ingestion: Call poison control or Chem-Tel @ 1-800-255-3924   |  |  |               |  |                 |              |
| SECTION 6 - CONTROL AND PROTECTIVE MEASURES   |  |  |               |  |                 |              |
| Respiratory Protection (specify type): If mist concentration exceeds TLV, use respirator approved by NIOSH in positive pressure mode.                           |  |  |               |  |                 |              |
| Protective Gloves: Acid resistant gloves.   |  | Eye Protection: Chemical splash goggles.   |               |  |                 |              |
| Ventilation Requirements: Adequate ventilation to keep mist concentration below TLV.  |  |  |               |  |                 |              |
| Other Protective Clothing & Equipment: Chemical resistant aprons or suits as required.  |  |  |               |  |                 |              |
| Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing.   |  |  |               |  |                 |              |
| SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE   |  |  |               |  |                 |              |
| Steps To Be Taken If Material Is Spilled Or Released: Absorb with suitable medium. Dispose of according to local, state or federal regulations.                 |  |  |               |  |                 |              |
| Precautions To Be Taken In Handling & Storage: Keep out of reach of children  |  |  |               |  |                 |              |
| Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Avoid breathing vapors.  |  |  |               |  |                 |              |
| Waste Disposal Methods: Dispose of in accordance with all local, state, and federal regulations.  |  |  |               |  |                 |              |

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.  
 \*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [d] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only