

## Material Safety Data Sheet

**MSDS No. M001**

**Date of Preparation:** April 5, 2002  
**Supersedes MSDS dated:** March 15, 1999

<b>SECTION 1 - PRODUCT IDENTIFICATION</b>
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**Product Name:** Denstone, Labstone, Tru-Stone, Die-Stone, Die-Keen, Milestone™, Indic Die Stone, Lab Plaster, Model Plaster, 0-67, Orthodontic Plaster, Mounting Stone, Statstone

**Product Code:** 45162 through 48682

**Synonyms:** Gypsum (Calcium Sulfate)

**Manufacturer:** Heraeus Kulzer, Inc.  
 4315 South Lafayette Blvd.  
 South Bend, IN 46614-2517  
 Phone: 800-431-1785  
 FAX: 800-522-1545  
 Hours: 8:00 A.M. - 4:30 P.M.  
 After Hours: Chemtrec @ 1-800-424-9300

<b>SECTION 2 - CHEMICAL COMPOSITION / HAZARDOUS INGREDIENTS</b>
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MATERIALS	CAS #	HAZARD	% WT.	OSHA PEL	ACGIH TLV
Gypsum (Calcium Sulfate)	7778-18-9	Dust Nuisance	90 - 100	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

<b>SECTION 3 - HAZARDS IDENTIFICATION</b>
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**\*\*\* POTENTIAL HEALTH EFFECTS \*\*\***

**Target Organs:** Eyes, Skin, Respiratory System

**Signs and Symptoms of Short-Term (Acute) Exposure:**

*Eye:* Particles may cause irritation. Mixed material may develop enough heat to cause burns if large amount comes in contact with skin during hardening.

**Effects of Long-Term (Chronic) Exposure:** Prolonged exposure may cause lung disease.

**Medical Conditions Aggravated by Exposure:** Pre-existing upper respiratory and lung diseases such as, but limited to, bronchitis, emphysema and asthma.

**Hygienic Practices:** Wear a mask while exposed to dust.

**Carcinogenicity:** IARC, NTP, and OSHA does not list any of the ingredients as a carcinogen.



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#### SECTION 4 - FIRST AID MEASURES

**Inhalation:** Remove to fresh air.

**Eye Contact:** Remove contact lenses. Rinse eyes with plenty of running water for 10 - 15 minutes, including under eyelids. If irritation occurs, contact physician.

**Skin Contact:** Wash promptly with water. If irritation occurs, contact physician.

**Ingestion:** Product may harden on contact with water. May result in obstruction if ingested. See physician.

#### SECTION 5 - FIRE-FIGHTING MEASURES

**Fire Hazards/Conditions of Flammability:** None Known

**Flash Point (Method):** Not Applicable

**Lower Flammable Limit (% by volume):** Not Applicable

**Upper Flammable Limit (% by volume):** Not Applicable

**Suitable Extinguishing Media:** Non-combustible materials

**Special Fire-Fighting Procedures/Equipment:** None Known

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Not Applicable

**Environmental Precautions:** Not Applicable

**Spill/Leak Procedures:** Sweep or vacuum spilled material into a waste container for disposal. Avoid creating excessive dust.

#### SECTION 7 - HANDLING AND STORAGE

**Handling and Storing Precautions:** Be sure proper ventilation and respiratory and eye protection are used under dusting condition.

#### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Ventilation and Engineering Controls:** Provide general ventilation and local exhaust to meet TLV requirements.

**Respiratory Protection:** Wear NIOSH-approved respirator as appropriate for nuisance dust, especially when dry grinding. Excessive particulate in the workplace should be avoided. Wet grinders should be used.

**Protective Gloves:** Wear gloves to prevent prolonged or repeated skin contact.

**Eye Protection:** Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Other Protective Equipment:** None Known

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.



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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Physical Form, Color and Odor:** Fine powder in various colors  
**Odor Threshold:** Low odor  
**pH:** Not Applicable  
**Boiling Point:** Not Applicable  
**Melting/Freezing Point:** Not Applicable  
**Vapor Pressure:** Not Applicable  
**Solubility in Water:** Slight, 0.2% at 40°C  
**Coefficient of Oil/Water Distribution:** Not Applicable  
**Specific Gravity or Relative Density (water =1):** 2.3  
**Vapor Density (air =1):** Not Applicable  
**Volatile Organic Compounds (VOC's):** Not Applicable  
**Evaporation Rate:** Not Applicable

**SECTION 10 - STABILITY AND REACTIVITY**

**Stability and Reactivity:** Stable  
**Conditions to Avoid:** None Known  
**Materials to Avoid:** Acids  
**Hazardous Decomposition Products:** None Known  
**Hazardous Polymerization:** Will Not Occur

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Routes of Exposure:** No Data Available  
**Toxicological Data:** No Data Available  
**Teratogenicity, Mutagenicity, Other Reproductive Effects:** No Data Available  
**Sensitization to Material:** No Data Available

**SECTION 12 - ECOLOGICAL INFORMATION**

**General Notes:** None Known

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Disposal:** Follow applicable Federal, State and Local regulations.



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#### SECTION 14 - TRANSPORTATION INFORMATION

**Transportation of Dangerous Goods (TDG) Information:** Not Applicable

*Shipping Description:*

**49 CFR Information:** Not Applicable

*Shipping Description:*

**International Dangerous Goods Information:** Not Applicable

*IMO:*

*ICAO:*

**Other Information:** Not Applicable

#### SECTION 15 - REGULATORY INFORMATION

**WHMIS Information:** Not Applicable

**WHMIS Classification:** Not Applicable

**CEPA Information:** Not Applicable

**TSCA Information:** Components of this product is listed on the TSCA inventory.

**SARA Title III:** Die-Keen Green and Blue and Milestone Blue contain Chromium III Compound which is subject of the reporting requirements of SARA Title III, Section 311, 312 and 313.

#### SECTION 16 - OTHER INFORMATION

**Prepared By:** Regulatory Department

**Additional Notes or References:**

**ACGIH:** American Conference of Governmental Industrial Hygienists

**IARC:** International Agency for Research on Cancer

**NIOSH:** National Institute for Occupational Safety and Health

**WHMIS:** Workplace Hazardous Materials Information System

**Revision:** Noted

We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of Heraeus Kulzer, Inc., it is the user's obligation to determine the conditions of safe use of the product.