

SAFETY DATA SHEETS

This SDS packet was issued with item:

075141411

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

075141403

Material Safety Data Sheet

MSDS No. M001

Date of Review: September 13, 2010

Supersedes MSDS dated: April 6, 2010

SECTION 1 - PRODUCT IDENTIFICATION

Product Name: Denstone, Labstone, Tru-Stone, Die-Stone, Die-Keen, Die-Keen Resin Reinforced, Lab Plaster, Model Plaster, 0-67, Orthodontic Plaster, Mounting Stone, Statstone

Synonyms: Gypsum (Calcium Sulfate)

Manufacturer: Heraeus Kulzer, LLC
300 Heraeus Way
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

SECTION 2 - CHEMICAL COMPOSITION / HAZARDOUS INGREDIENTS

MATERIALS	CAS #	HAZARD	% WT.	OSHA PEL	ACGIH TLV
Gypsum (Calcium Sulfate)	7778-18-9	Dust Nuisance	90 - 100	15 mg/m ³	10 mg/m ³

SECTION 3 - HAZARDS IDENTIFICATION

*** 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.

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.

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.

SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: DieKeenResinReinforced Blue

Other means of identification:

Synonyms: None

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: None.

Chemical manufacturer address and telephone number:

Manufacturer Name: Heraeus Kulzer, LLC (Mitsui Chemicals Group)
Address: 300 Heraeus Way
South Bend, Indiana 46614-2517
USA
General Phone Number: 800-431-1785

Emergency phone number:

Emergency Phone Number: Chemtrec @ 1-800-424-9300

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: WARNING.

GHS Class: Eye Irritation. Category 2.

Hazard Statements: H319 - Causes serious eye irritation.

Precautionary Statements: P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye: Eye contact with the dust may cause irritation.

Skin: May cause skin irritation.

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if ingested.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing Conditions: None generally recognized.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Polyvinyl Alcohol	9002-89-5	1 - 5 by weight	
Ammonium Naphthalene Sulfonate	9069-80-1	1 - 5 by weight	
Portland Cement	65997-15-1	1 - 5 by weight	
Plaster of Paris	26499-65-0	80 - 90 by weight	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	If dust gets into eyes. Flush eye with water for 15 minutes. Remove contact lenses, if applicable, and continue flushing. If eye irritation persists, consult a specialist.
Skin Contact:	If dust gets onto the skin. Wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation:	If dust is inhaled, remove the affected person to fresh air. If symptoms persist, get medical attention.
Ingestion:	Accidental ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that partial or complete intestinal obstruction does not occur.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Use any extinguishing media appropriate for the surrounding fires. Dike to control run-on/run-off if water is used to fight fires
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NFPA Ratings:

NFPA Health:	1
NFPA Flammability:	0
NFPA Reactivity:	1



SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Persons responding to an accidental release should wear coveralls, gloves, safety glasses or other protective clothing as required. Close-fitting goggles may be necessary in some circumstances to prevent eye contact with dust. Workers should wash and change clothing following cleanup of a spill to prevent personal contamination.
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Environmental precautions:

Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
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Methods and materials for containment and cleaning up:

Methods for containment:	Collect spillage and prevent from spreading by covering, diking, berming or other means. Minimize dust generation.
Methods for cleanup:	Control source of spillage if possible to do so safely. Restrict access to the area until completion of clean up. Contain spilled material immediately and control run-on and run-off. Clean up spilled material observing precautions listed in Section 8, Personal Protection and using methods that will minimize dust generation. Uncontaminated materials can be recovered for return to process. Contaminated materials should be placed in suitable labeled containers for later recovery or disposal. Waste material must be treated and disposed of in accordance with all local, regional, and national requirements.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	No special handling procedures are required for this material. Avoid dust formation.
Hygiene Practices:	Wash hands with water as a precaution. Do not breathe dust.

Conditions for safe storage, including any incompatibilities:

Storage:	No special storage conditions required.
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SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Portland Cement :

Guideline ACGIH:	TLV-TWA: 1 mg/m3 (E,R) TLV-TWA: 1 mg/m3 Respirable fraction (R)
Guideline OSHA:	PEL-TWA: 5 mg/m3 Respirable fraction (R) PEL-TWA: 50 mppcf Total particulate/dust (T) PEL-TWA: 15 mg/m3 Total particulate/dust (T)

Plaster of Paris :

Guideline OSHA:	PEL-TWA: 15 mg/m3 Total particulate/dust (T) PEL-TWA: 5 mg/m3 Respirable fraction (R)
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Appropriate engineering controls:

Engineering Controls:

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:**Eye/Face Protection:**

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166. Close-fitting goggles may be necessary in some circumstances to prevent eye contact with dust.

Skin Protection Description:

Coveralls or other work clothing, safety glasses, and gloves are recommended to prevent prolonged or repeated direct skin and eye contact.

Hand Protection Description:

Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

Respiratory Protection:

No personal respiratory protective equipment normally required. When workers are facing airborne particulate/dust concentrations above the exposure limit they must use appropriate certified respirators.

PPE Pictograms:

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Fine powder.
Color:	Blue
Odor:	Not determined.
Boiling Point:	Not determined.
Melting Point:	Not determined.
Specific Gravity:	2.3
Solubility:	Slight, 0.2% at 40°C in water
Vapor Pressure:	Not determined.
Percent Volatile:	Not determined.
Evaporation Rate:	Not determined.
pH:	Not determined.
Flash Point:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Auto Ignition Temperature:	Not determined.
VOC Content:	Not determined.

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: None under normal use.

Possibility of hazardous reactions:

Hazardous Polymerization: Will not occur.

Conditions To Avoid:

Conditions to Avoid: Dust dispersion in air.

Incompatible Materials:

Incompatible Materials: None during normal use.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:**Polyvinyl Alcohol :**

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: >20 gm/kg [Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Somnolence (general depressed activity) Behavioral - Muscle weakness]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 23854 mg/kg [Behavioral - Muscle weakness
Gastrointestinal - Hypermotility, diarrhea Liver - Other changes] (RTECS)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:**Ecotoxicity:** No ecotoxicity data was found for the product.**Environmental Stability:** No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:**Waste Disposal:** Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 : TRANSPORT INFORMATION

UN number: Not regulated as hazardous material for transportation.**UN proper shipping name:** Not regulated as hazardous material for transportation.**DOT Shipping Name:** Not regulated as hazardous material for transportation.**DOT UN Number:** Not regulated as hazardous material for transportation.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:**Canada WHMIS:** Controlled - Class: D2B Toxic
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.**Polyvinyl Alcohol :****TSCA Inventory Status:** Listed**Canada DSL:** Listed**Ammonium Naphthalene Sulfonate :****TSCA Inventory Status:** Listed**Canada DSL:** Listed**Portland Cement :****TSCA Inventory Status:** Listed**Canada DSL:** Listed

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:**HMIS Health Hazard:** 1**HMIS Fire Hazard:** 0**HMIS Reactivity:** 1**HMIS Personal Protection:** X

Health Hazard	1
Fire Hazard	0
Reactivity	1
Personal Protection	X

SDS Revision Date: May 25, 2015**SDS Format:****MSDS Author:** Regulatory department

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