

DONALD DURHAM COMPANY, INC.
SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: Durham's Rock Hard Water Putty

Recommended use of the chemical and restrictions on use:

Supplier: Donald Durham Company, Inc.
PO Box 804
Des Moines, Iowa 50304-0004

Phone: (515)243-0491

SDS Date of Preparation: 05/16/2015

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical:	Health:	Environmental
Not Hazardous	Carcinogenicity Category 1 Specific Target Organ Toxicity – Repeat Exposure Category 1	Not Hazardous

GHS Label Elements:

Danger!



Contains: Crystalline Silica

Statements of Hazard

H350 May cause cancer by inhalation.
H372 Causes damage to lungs through prolonged or repeated exposure by inhalation.

Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves, protective clothing, eye protection or face protection.
P308 + P313 IF exposed or concerned: Get medical attention
P405 Store locked up.

P501 Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Plaster of Paris	26499-65-0	70-80
Talc	14807-96-6	5-15
Dextrin	9004-53-9	5-9
Crystalline Silica- Quartz	14808-60-7	<1
Yellow Iron Oxide	51274-00-1	<1

The exact concentration is being withheld as a trade secret.

4. FIRST AID MEASURES

Eye: Flush victim's eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation develops and persists.

Skin: Wash contact area thoroughly with soap and water. Get medical attention if irritation or symptoms of exposure develop.

Ingestion: Do not induce vomiting unless directed to do so by a medical professional. Get medical attention if you feel unwell.

Inhalation: Remove victim to fresh air. If irritation or other symptoms persist, get medical attention.

Most important Symptoms: May cause eye and skin irritation. Inhalation of dust may cause mucous membrane and respiratory irritation. Prolonged inhalation of dust may cause lung damage. Contains crystalline silica. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis) and increase the risk of lung cancer. Risk of cancer depends on duration and level of exposure.

Indication of immediate medical attention/special treatment: Get immediate medical attention if large quantities of dust are inhaled.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use media appropriate to the surrounding fire.

Specific hazards arising from the chemical: Decomposition may release oxides of carbon and metal fumes.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

Explosion Data (sensitivity to mechanical impact or static discharge): None known.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Avoid creating airborne dust. Do not breathe dust. Avoid contact with eyes. Wear appropriate protective clothing and equipment.

Methods and Materials for Containment and Cleaning Up: Collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use. Do not use compressed air. Do not sweep up. Place dry material into an appropriate container for disposal. Flush spill area with water to remove residue.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Do not breathe dust. Avoid dust generation. Avoid contact with eyes. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly after handling. Keep container closed. Silica dust may be in the air without a visible dust cloud. Practice good housekeeping to prevent accumulation of dust in work areas.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Plaster of Paris	15 mg/m ³ TWA OSHA PEL (total dust) 5 mg/m ³ TWA OSHA PEL (respirable fraction)
Dextrin	None Established
Talc	2 mg/m ³ TWA ACGIH TLV (Respirable) 20 mppcf OSHA PEL
Crystalline Silica- Quartz	0.025 mg/m ³ TWA ACGIH TLV (Respirable) <u>10 mg/m³</u> TWA OSHA PEL (Respirable fraction) % SiO ₂ + 2 <u>30 mg/m³</u> TWA OSHA PEL (Total dust) % SiO ₂ + 2
Yellow Iron Oxide	None Established

Engineering Controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.

Respiratory Protection: In operations where the occupational exposure limits are exceeded, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: None required under normal conditions of use.

Eye Protection: Follow facility requirements. Chemical safety glasses or dust goggles recommended to avoid eye contact.

Other: None required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Cream colored, odorless powder.

Physical State: Solid	Odor Threshold: Not available
Vapor Density: Not applicable	Initial Boiling Point/Range: Not applicable
Solubility In Water: Insoluble	Vapor Pressure: Not applicable
Relative Density: Not available	Evaporation Rate: Not applicable
Melting/Freezing Point: Not available	pH: Not applicable
VOC Content: No VOC's.	Octanol/Water Coefficient: Not applicable

Solubility: Insoluble in water	Decomposition Temperature: Not available
Viscosity: Not applicable	Flammability (solid, gas): Not flammable
Flashpoint: Not applicable	Autoignition Temperature: None
Flammable Limits: LEL: Not applicable UEL: Not applicable	

10. STABILITY AND REACTIVITY

Reactivity: Stable.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur. Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride.

Conditions to Avoid: None known.

Incompatible Materials: None known.

Hazardous Decomposition Products: Oxides of carbon

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Eye: Dust may cause mechanical irritation and corneal abrasion.

Skin: May cause mechanical irritation, skin abrasions or dry skin.

Ingestion: No adverse effects expected for normal incidental ingestion. Large amounts may cause gastrointestinal irritation.

Inhalation: Inhalation of dust may cause irritation to the nose, throat and upper respiratory tract with coughing and shortness of breath.

Chronic: This product contains crystalline silica. Repeated inhalation of respirable crystalline silica may cause may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function.

Sensitization: Not expected to cause sensitization.

Carcinogenicity: Crystalline silica quartz is listed as "Carcinogenic to Humans" (Group 1) by IARC and "Known to be a Human Carcinogen" by NTP. None of the other components are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU Directive.

Germ Cell Mutagenicity: None of the components of this product are suspected to cause mutagenicity.

Reproductive Toxicity: No data available.

Numerical Measures of Toxicity:

Plaster of Paris: Oral rat LD50 >2000 mg/kg

Silicon dioxide: Oral rat LD50 > 5000 mg/kg, inhalation rat LC50 > 0.69 mg/L, dermal rabbit LD50 > 2000 mg/kg

Yellow Iron Oxide: Oral rat LD50 > 10000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Crystalline Silica Quartz: LC50 Carp - >10,000 mg/L/72hr.

This product is not expected to present an environmental hazard.

Persistence and Degradability: Biodegradability does not apply to inorganic compounds.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:

Proper Shipping Name: Not Regulated

UN Number: None

Hazard Class/Packing Group: None

Labels Required: None

IMDG Shipping Name: Not Regulated

UN Number: None

IMDG Hazard Class/ Packing Group: None

IMDG Hazard Labels Required: None

IATA Shipping Name: Not Regulated

UN Number: None

IATA Hazard Class/ Packing Group: None

IATA Hazard Labels Required: None

15. REGULATORY INFORMATION

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Hazard Category for Section 311/312: Chronic Health

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

Components	C.A.S. #	WT %
None	None	None

State Regulations

California: This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity:

Components	C.A.S. #	WT %
Crystalline Silica-Quartz	14808-60-7	<1

Personal air sampling has been conducted during end-use of the product, and no detectable levels of crystalline silica were measured.

Section 302 Extremely Hazardous Substances (TPQ): None

16. OTHER INFORMATION

NFPA Rating: Health = 1 Flammability = 0 Instability = 0
HMIS Rating: Health = 1* Flammability = 0 Physical Hazard = 0

Revision Summary:
02/15/2015: New GHS SDS