

**Section 1 Identification**

**Product identifiers**

Product name: Dynasteel

**Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Aluminum reinforced epoxy putty

**Details of the supplier of the safety data sheet**

Freeman Manufacturing and Supply Company  
 1101 Moore Road, Avon, OH 44011  
 Phone (440) 934-1902  
 FAX (440) 934-7200

HMIS	
<b>H</b>	2
<b>F</b>	1
<b>R</b>	0
<b>PPE</b>	
Sec. 8	

**24 Hour Emergency Phone Number: (800) 424-9300**

**Section 2 Hazards Identification**

**GHS classification in accordance with 29 CFR 1910.1200 (OSHA HCS)**

Serious Eye Damage/Eye Irritation, Category 2A  
 Skin Corrosion/Skin Irritation, Category 2  
 Skin Sensitization, Category 1

**Hazard pictograms:**



**Signal word:** Warning

**Hazard statements**

Causes serious eye irritation.  
 Causes skin irritation.  
 May cause an allergic skin reaction.

**Precautionary statements**

**Prevention**

Use only in a well ventilated area. Avoid breathing dust.  
 Wear protective gloves/eye protection/face protection.  
 Wash hands thoroughly after handling.  
 Do not eat, drink or smoke when using this product.

**Response**

If on skin: Wash with plenty of soap and water.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Wash contaminated clothing before reuse.  
 If in eyes: Rinse continuously with water for at least 15 minutes.  
 Remove contact lenses, if present and easy to do.  
 If eye irritation persists: Get medical advice/attention.

**Storage**

Store in a well-ventilated place. Keep cool.

**Section 2 Hazards Identification** continued

Disposal

Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

**Hazards not otherwise classified (HNOC) or not covered by GHS**

None known

**Section 3 Composition/Information on Ingredients**

Ingredient Name	CAS Number	Concentration (%)
Talc, not containing asbestos fibres	14807-86-6	30-60
Ferrosilicon	8049-17-0	10-30
Epoxy resin	25068-38-6	10-30
Glass, oxide	65997-17-3	10-30
Nepheline syenite	37244-96-5	1-5
Crystalline silica, non-respirable	14808-60-7	0.1-1

**Section 4 First Aid Measures**

**Description of first aid measures**

**If inhaled**

Move person into fresh air. If not breathing, give artificial respiration. Get medical attention if adverse health effects persist or are severe.

**In case of skin contact**

Wash off with soap and plenty of water. Get medical attention if symptoms occur.

**In case of eye contact**

Flush eyes with water for at least 15 minutes. Get medical attention immediately.

**If swallowed**

Wash out mouth with water. If the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe.

**Most important symptoms and effects, both acute and delayed**

**Inhalation:** No specific data

**Ingestion:** No specific data.

**Eye contact:** Causes serious eye irritation. May cause allergic skin reaction.

**Skin contact:** Causes skin irritation.

**Indication of any immediate medical attention and special treatment needed**

**Inhalation:** No specific data

**Ingestion:** No specific data.

**Skin contact:** Adverse symptoms may include the following: Irritation, Redness

**Eye contact:** Adverse symptoms may include the following: Pain or irritation, Watering, Redness

**Notes to physician**

Treat symptomatically.

**Section 5 Fire-Fighting Measures**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media**

None known

**Specific hazards arising from the chemical**

None known.

**Hazardous thermal decomposition products**

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, halogenated compounds, metal oxide/oxides

**Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use water spray to cool fire-exposed surfaces and to protect personnel. Do not allow run-off from fire-fighting to enter drains or water courses.

**Section 6 Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

For personal protection see section 8.

**Environmental precautions**

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

**Methods and materials for containment and cleaning up**

Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Section 7 Handling and Storage**

**Precautions for safe handling**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatible materials**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**Section 8 Exposure Controls/Personal Protection**

**Components with workplace control parameters**

Component	List name	TWA (8 hours)
Talc, not containing asbestos fibres	US ACGIH	2 mg/m <sup>3</sup>
Glass, oxide	US ACGIH	5 mg/m <sup>3</sup>

**Appropriate engineering controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. An eye wash station and safety shower should be located near the workstation.

**Personal protective equipment**

**Eye/face protection**

Use safety glasses equipped with side shields.

**Hand Protection**

Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC. Contaminated gloves should be replaced.

**Body Protection**

Prevent skin contact when handling material

**Respiratory Protection**

If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

**General Hygienic Practices**

Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling. Remove contaminated clothing promptly and clean thoroughly before reuse.

**Section 9 Physical and Chemical Properties**

<b>Appearance</b>	Dark gray/black solid
<b>Odor</b>	Pungent, sulfurous
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	No data available
<b>VOC Content</b>	None
<b>Initial boiling point</b>	No data available
<b>Flash point (Seta)</b>	>93°C (>200°F), Product does not sustain combustion
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density (g/cc)</b>	2.247
<b>Water solubility</b>	Insoluble
<b>Coefficient: n-octanol/ water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	>200°C (>392°F)
<b>Viscosity</b>	No data available

**Section 10 Stability and Reactivity**

**Reactivity:** No data available  
**Chemical stability:** These products are stable under recommended storage conditions  
**Possibility of hazardous reactions:** None known  
**Conditions to avoid:** No specific data  
**Incompatible materials:** No specific data  
**Hazardous decomposition products:** Carbon monoxide, Carbon dioxide

**Section 11 Toxicological Information**

**Information on toxicological effects**

<b>Acute oral toxicity</b>	ATE value = 5,804 mg/kg
<b>Acute inhalation toxicity</b>	No data available
<b>Acute dermal toxicity</b>	No data available
<b>Skin corrosion/irritation</b>	Mild skin irritant, may cause an allergic skin reaction
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation
<b>Respiratory or skin sensitization</b>	Skin sensitizing
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity:</b> This product contains talc in a polymer matrix. Sanding the cured product may release particles containing talc with the polymer and other components of the matrix into the air. The talc contains less than 1% crystalline silica. Appropriate evaluations of the use of the product should be performed to determine if exposure to talc occurs due to handling and use. If such exposures occur, appropriate precautions must be taken to prevent exposure in excess of the OSHA Permissible Exposure Limit (PEL).	
<b>IARC</b>	Crystalline silica is Class 1.
<b>NTP</b>	Crystalline silica is known to be a human carcinogen.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity</b>	
- single exposure	No data available
<b>Specific target organ toxicity</b>	
- repeated exposure	No data available
<b>Aspiration hazard</b>	No data available

**Section 12 Ecological Information**

<b>Ecotoxicity</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Results of PBT &amp; vPvB assessment</b>	No data available

**Section 13 Disposal Considerations**

Use safety containers for disposal. Contact a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations.

**Section 14 Transport Information**

**DOT:** Not Regulated  
**IATA:** Not Regulated  
**IMDG:** Not Regulated

**Section 15 Regulatory Information**

**US Federal Regulations**

TSCA Inventory Status: Not determined  
SARA 311/312: Acute Health Hazard

**US State Regulations**

California Proposition 65: None listed  
U.S. State Right-to-Know Regulations: Talc, soapstone, fibrous glass, silica, quartz, ferrosilicon

**Section 16 Other Information**

**Disclaimer**

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.