



MATERIAL SAFETY DATA SHEET

1. COMPANY AND PRODUCT IDENTIFICATION

DUNCAN ENTERPRISES
5673 East Shields Avenue
Fresno, CA 93727
559-291-4444
559-291-9444 (Fax)

EMERGENCY TELEPHONE NUMBERS

Health Emergency: 559-291-4444 7:00 am – 3:30 pm
Pacific Standard Time
Spill and Off-Hour
Health Emergencies: 800-424-9300 U.S. and Canada
703-527-3887 Outside U.S. and
Canada (Collect)

Product Name: DUNCAN SY556 DIPPING GLAZE THICKENER
Product Type: Nontoxic Ceramic Glaze Thickener

2. COMPOSITION / INFORMATION ON INGREDIENTS

The ingredients in this formulation are a trade secret. All ingredients in the formula are non-hazardous, unless specified in Sections 3 and 15.

3. HAZARDS IDENTIFICATION

HMIS Hazard Ratings for Product

Health:	1	0 = Minimal
Flammability:	1	1 = Slight
Reactivity:	0	2 = Moderate
Personal Protection:	See Section 8	3 = Serious
		4 = Severe
		* = Chronic Effects

Hazardous Components Weight Percent

Calcium Nitrate	< 60%
Ammonium Nitrate	< 3%
Strontium Nitrate	< 1%
Water or Crystallization	> 40%

Exposure Limits: None Established

4. FIRST AID MEASURES

Eye Contact: Flush eyes with large amounts of water for 15 minutes or until irritation subsides. Consult a physician if irritation persists.

Skin Contact: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

Inhalation: Move subject to fresh air.

Ingestion: Give large amounts of water and induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Autoignition Temperature:	Non-flammable
Flash Point:	N/A
Upper Explosive Limit (%):	N/A
Lower Explosive Limit (%):	N/A

5. FIRE FIGHTING MEASURES (Continued)

Extinguisher Media:	Dry Chemical, Carbon Dioxide or Water Spray – Use extinguishing media appropriate for surrounding fire
Special Firefighting Procedures:	Flood with large volumes of water or water spray. Cool containers with flooding amount of water after fire is extinguished
Unusual Fire & Explosion Hazards:	Spontaneous chemical reaction with low flash point organics or reducing agents or heat shock

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures:	Spills should be taken up with suitable absorbent material and placed in containers. Spill areas can be washed with water; collect wash water for approved disposal. Do not flush to storm sewer or waterway.
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For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

Keep containers closed when not in use. Store in a cool, dry area away from reducing agents, fuels, organic materials or oils.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Conditions Under Which Personal Protective Equipment Required

Eye Protection Requirements:	Wear safety glasses with side shields
Glove Requirements:	Chemical resistant vinyl or rubber gloves
Clothing Requirements:	Protective clothing is normally not necessary for foreseeable conditions of use
Change / Removal of Clothing:	None required
Wash Requirements:	Good hygiene practices should be followed
Respirator Requirements:	NIOSH approved respirator for sprays and mists recommended if using a sprayer
Ventilation Requirements:	General; local exhaust ventilation recommended when spraying

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Physical Description:	Opaque Off White Colored Liquid
pH:	6.5 – 9.0
Boiling Point:	212
Freezing Point:	32°F
Melting Point:	N/A
Solubility in Water:	Soluble
Specific Gravity (Water = 1):	1.7 – 2.0
Bulk Density:	14.1 – 16.7 lb / gal
Evaporation Rate (Water = 1):	1
Vapor Pressure:	Negligible
Vapor Density:	N/A

9. PHYSICAL AND CHEMICAL PROPERTIES (Continued)

Autoignition Temperature: N/A
Flash Point: N/A
Oxidizing Properties: Yes

10. STABILITY AND REACTIVITY

Stability: Stable
Incompatible Materials: Reducing agents, combustible materials, flame, heat
Hazardous Decomposition Products: Oxides of Nitrogen
Hazardous Polymerization: Will not occur
Conditions to Avoid: Can be explosive when mixed with reducing agents; mixtures may detonate by heat and shock

11. TOXICOLOGICAL INFORMATION

Health Hazards

Acute: Dust may irritate nose, throat and respiratory tract.
Chronic: Repeated dust exposure may cause respiratory tract irritation and difficulty in breathing
Carcinogenicity: None
Signs and Symptoms of exposure
Eye: burning and redness, skin irritation
Respiratory: May cause difficult breathing
Ingestion: May cause abdominal spasms

12. ECOLOGICAL INFORMATION

No Applicable Data

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Waste disposal should be in accordance with existing Federal, State, and Local environmental regulations.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Information

DOT Shipping Name: Glazes or Stains, Ceramic or Pottery, Artists or Hobbyists Liquid
DOT Hazard Class: 88690 Sub. 1
DOT Reportable Quantity: None

15. REGULATORY INFORMATION

TSCA: All components are on the TSCA Inventory
FDA: 21CFR175.105
SARA/Title III: This product contains no substances at or above the reported threshold under Section 313, based on available data.

15. REGULATORY INFORMATION (Continued)



Products bearing the Nontoxic Product Seal are certified in a program of toxicological evaluation by a nationally recognized toxicologist to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. These products are certified to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236. In addition, there is no physical hazard as defined within 29 CFR Part 1910.1200(c).

16. OTHER INFORMATION

Table of Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
ANSI	American National Standards Institute
ASTM	American Society for Testing Materials
°C	Degrees Centigrade
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CPR	Controlled Products Regulations
DOT	Department of Transportation
EPA	Environmental Protection Agency
°F	Degrees Fahrenheit
FDA	Food & Drug Administration
Hg	Mercury
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
LD	Lethal Dose
mg / kg	Milligram per kilogram
mm	Millimeter
MSDS	Material Safety Data Sheet
MSHA	Mine Safety and Health Administration
N/A	Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
ppm	Parts per million
SARA	Superfund Amendment and Reauthorization Act
STEL	Short-Term Exposure Limit
TSCA	Toxic Substances Control Act
TWA	Time - Weighted Average
U.N.	United Nations
WHMIS	Workplace Hazardous Materials Information System
>	Greater Than
<	Less Than

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Disclaimer

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.