



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 DESIGNER GLAZE DG203
Product Type: Ceramic Glaze

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:	3*	0 = Minimal
Flammability:	0	1 = Slight
Reactivity:	0	2 = Moderate
Personal Protection:	F (if spraying)	3 = Serious
		4 = Severe
		* = Chronic Effects

Hazardous Components	OSHA PEL	ACGIH TLV	CAS #	%
Copper (II)Oxide	-----	-----	1317-38-0	Up to 7 (as CuO)

4. FIRST AID MEASURES

Eye Contact: Flush eyes with large amounts of water until irritation subsides. Consult a physician.
Skin Contact: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.
Inhalation: Move subject to fresh air; if breathing is difficult give oxygen. Consult a physician.
Ingestion: If swallowed, consult a physician. Induce vomiting if prescribed under medical supervision. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Autoignition Temperature: Nonflammable
Flash Point: Not Applicable
Upper Explosive Limit (%): Not Applicable
Lower Explosive Limit (%): Not Applicable
Extinguisher Media: Product is nonflammable – Use extinguishing media appropriate for surrounding fire
Special Firefighting Procedures: Not Applicable
Fire & Explosion Hazards: Not Applicable
NFPA Flammability Hazard Class: 0 = Insignificant

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Uncontaminated material may be recovered and re-used. If contaminated scoop, vacuum, or wash into a receptacle for disposal.

7. HANDLING AND STORAGE

Handling: When product in use, do not eat, drink, or smoke. Wash hands immediately after use. Keep sealed. **Keep out of reach of children. Do not use this product if pregnant or contemplating pregnancy.**

Storage: Protect containers against physical damage; store in dry area away from feed and food products.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Respiratory Protection: If spraying, do not inhale mist. Use respirator that is NIOSH approved for sprays and mists.

Ventilation: Local exhaust ventilation recommended

Mechanical (General): Recommended when spraying

Protective Gloves: Not needed for foreseeable conditions of use

Eye Protection: Wear safety glasses with side shields

Other Protective Clothing Or Equipment: None needed

Work/Hygienic Practices: Good hygiene practices should be followed. When product in use, do not eat, drink, or smoke. Wash hands immediately after use. Keep sealed. **Keep out of reach of children. Do not use this product if pregnant or contemplating pregnancy.**

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Physical Description: Colored liquid. Odorless
pH: 7 - 10
Boiling Point: 212°F
Freezing Point: 32°F
Melting Point: 1800°F
Solubility in Water: Insoluble
Specific Gravity (Water = 1): 1.5 – 1.8
Bulk Density: 12.5 – 15.0 lb / gal
Evaporation Rate (Water = 1): 1
Vapor Pressure: 17.5 mm Hg @ 20°C (68°F)
Autoignition Temperature: Not Applicable
Flash Point: Not Applicable
Oxidizing Properties: Not Applicable

10. STABILITY AND REACTIVITY

Stability: Stable
Incompatible Materials: None known
NFPA Reactivity Hazard Class: 0 = Insignificant
Hazardous Decomposition Products: Avoid fumes when firing
Hazardous Polymerization: Will not occur
Conditions to Avoid: None Known

11. TOXICOLOGICAL INFORMATION

Routes Of Entry **Inhalation:** yes **Skin:** no **Ingestion:** yes

Health Hazards (Acute and Chronic)

Overexposure may cause enlargement of the liver, jaundice and kidney damage.

Carcinogenicity **NTP:** no **IARC Monographs:** no **OSHA Regulated:** no

Signs and Symptoms of Exposure

Discoloration of the skin. Irritation of the eyes or upper respiratory tract, vomiting, gastric pain, dizziness, exhaustion, anemia and cramps.

Medical Conditions Generally Aggravated by Exposure

Abrasive, can scratch eyes. Overexposure can dry skin, or cause skin rash or upper respiratory tract irritation.

12. ECOLOGICAL INFORMATION

No Data Available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Follow Federal or State and Local regulations for disposal. Lead is listed in US-EPA CFR 40, Part 261.24. Testing of the waste may be required to determine status under the hazardous waste regulations.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Information

DOT Shipping Name: Consumer Commodity ORM-D Glazes or Stains
DOT Hazard Class: OA/OG 88690 Sub. 1

15. REGULATORY INFORMATION



Products bearing the Caution Label are certified to be properly labeled in a program of toxicological evaluation by a nationally recognized toxicologist. The products are certified by the toxicologist to be labeled in accordance with the chronic hazard labeling standard ASTM D-4236.

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

16. OTHER INFORMATION (Continued)
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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.