



# 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 SY 1024, SY 1024D, SY 1025 AND SY 1025D GLAZES  
**Product Type:** Ceramic Glazes

## 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

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

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

## 10. STABILITY AND REACTIVITY

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

**CAUTION**

**CONFORMS TO  
ASTM D-4236**

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

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ANSI</b>	American National Standards Institute
<b>ASTM</b>	American Society for Testing Materials
<b>°C</b>	Degrees Centigrade
<b>CAS</b>	Chemical Abstract Service
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>CPR</b>	Controlled Products Regulations
<b>DOT</b>	Department of Transportation
<b>EPA</b>	Environmental Protection Agency
<b>°F</b>	Degrees Fahrenheit
<b>FDA</b>	Food & Drug Administration
<b>Hg</b>	Mercury
<b>HMIS</b>	Hazardous Materials Identification System

## 16. OTHER INFORMATION (Continued)

### Table of Abbreviations (Continued)

<b>IARC</b>	International Agency for Research on Cancer
<b>LD</b>	Lethal Dose
<b>mg / kg</b>	Milligram per kilogram
<b>mm</b>	Millimeter
<b>MSDS</b>	Material Safety Data Sheet
<b>MSHA</b>	Mine Safety and Health Administration
<b>N / A</b>	Not Applicable
<b>NFPA</b>	National Fire Protection Association
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>ppm</b>	Parts per million
<b>SARA</b>	Superfund Amendment and Reauthorization Act
<b>STEL</b>	Short-Term Exposure Limit
<b>TSCA</b>	Toxic Substances Control Act
<b>TWA</b>	Time - Weighted Average
<b>U.N.</b>	United Nations
<b>WHMIS</b>	Workplace Hazardous Materials Information System
<b>&gt;</b>	Greater Than
<b>&lt;</b>	Less Than

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### Disclaimer

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