



# 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



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

**16. OTHER INFORMATION (Continued)**

**Table of Abbreviations (Continued)**

<b>HMIS</b>	Hazardous Materials Identification System
<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**

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.