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
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

<table>
<thead>
<tr>
<th>Hazardous Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper (II)Oxide</td>
<td>---------</td>
<td>----------</td>
<td>1317-38-0</td>
<td>Up to 7 (as CuO)</td>
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</tbody>
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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
- HMIS: Hazardous Materials Identification System
16. OTHER INFORMATION (Continued)

Table of Abbreviations (Continued)

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
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<tr>
<td>LD</td>
<td>Lethal Dose</td>
</tr>
<tr>
<td>mg / kg</td>
<td>Milligram per kilogram</td>
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<tr>
<td>mm</td>
<td>Millimeter</td>
</tr>
<tr>
<td>MSDS</td>
<td>Material Safety Data Sheet</td>
</tr>
<tr>
<td>MSHA</td>
<td>Mine Safety and Health Administration</td>
</tr>
<tr>
<td>N / A</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Association</td>
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<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety and Health</td>
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<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
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<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>ppm</td>
<td>Parts per million</td>
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<tr>
<td>SARA</td>
<td>Superfund Amendment and Reauthorization Act</td>
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<tr>
<td>STEL</td>
<td>Short-Term Exposure Limit</td>
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<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>TWA</td>
<td>Time - Weighted Average</td>
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<tr>
<td>U.N.</td>
<td>United Nations</td>
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<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
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<tr>
<td>&gt;</td>
<td>Greater Than</td>
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<tr>
<td>&lt;</td>
<td>Less Than</td>
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Creation Date: 07/87
Revision Date: 06/24/05
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Senior R&D Specialist
Duncan Enterprises
5673 East Shields Avenue
Fresno, CA 93727
559-291-4444
559-291-9444 (Fax)

Disclaimer
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