



## 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 OG 801 BRIGHT GOLD**  
**Product Category:** Solvent - Based Metallic Overglaze

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	OSHA PEL	ACGIH TLV	CAS #	%
*Aromatic Hydrocarbon TSRN 80100419-5011p	0.2 ppm	0.2 ppm	-----	1-5
*Organo Chromium Cmpd. as Cr)	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	-----	<1
Cyclohexanol	50 ppm	50 ppm	108-93-0	15-20
Cyclohexanone	50 ppm	25 ppm	108-94-1	5-10
Ethyl Acetate	400 ppm	400 ppm	141-78-6	1-5
Xylene	100 ppm	100 ppm	1330-20-7	-----

#### Other Information

(C) Ceiling Limit Value

\*Withheld as a trade secret.

### 3. HAZARDS IDENTIFICATION

#### HMIS Hazard Ratings for Product

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

#### Routes of Exposure

Exposure may be by inhalation and / or skin or eye contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

#### Effects of Overexposure

Irritation of eyes, skin, and upper respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

#### Signs and Symptoms of Overexposure

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### Cancer Information

For complete discussion of toxicology data refer to Section 11.

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### 4. FIRST AID MEASURES

**Eye contact:** Rinse with clean water or saline solution for at least 15 minutes. Seek medical advice if irritation persists.

**Skin contact:** Remove contaminated clothing and wash skin with soap and water. Wash or clean before reuse.

**Inhalation:** Remove from exposure to fresh air. Give artificial respiration if not breathing. If breathing is difficult, give oxygen. Contact a physician immediately.

**Ingestion:** Rinse mouth with water and give water or milk to drink. Do not induce vomiting. Do not give anything to an unconscious person. Contact a physician immediately.

### 5. FIRE FIGHTING MEASURES

**Flash Point (Method Used)**

**Flammable Limits**

LEL N/A UEL N/A

**Extinguishing Media**

CO<sub>2</sub>, dry chemical or Chemical Foam. Water may be ineffective, but may be used to control exposed containers.

**Special Fire Fighting Procedures**

Fire Fighters should wear NIOSH/MSHA approved pressure demand self-contained breathing apparatus.

**Unusual Fire And Explosion Hazards**

Toxic fumes of metals and vapors may be evolved in a fire.

### 6. ACCIDENTAL RELEASE MEASURES

**Steps To Be Taken In Case Material Is Released Or Spilled**

Promptly absorb spill using inert materials such as sand, vermiculite or sawdust. Remove all sources of ignition. Cover drains to prevent entry into waterways. If a Reportable Quantity is exceeded for any ingredients, contact the National Response Center.

### 7. HANDLING AND STORAGE

**Precautions To Be Taken In Handling And Storing**

Keep away from, open flame, and sources of ignition. Store as flammable liquid. Store in a cool dry place. See Reactivity Section.

**Other Precautions**

Follow good industrial hygiene and housekeeping practices. Wash hands before eating, drinking, smoking, or applying cosmetics, and at the end of the work shift. Avoid contact with eyes, skin, or clothing.

### 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

**Respiratory Protection (Specify Type)**

If there is a possibility that the TLVs or PELs may be exceeded, a NIOSH/MSHA approved respirator with organic vapor cartridge represents the minimum level of respiratory protection. To insure proper respirator selection and use, refer to the requirements of 29 CFR 1910.134 and the latest addition of ANSI Z 88.2.

**Ventilation**

**Local Exhaust:**

Recommended

**Mechanical (General):**

Acceptable for small quantities

**Protective Gloves:**

Solvent impermeable gloves

**Eye Protection:**

Safety glasses or goggles

**Other Protective Clothing**

**Or Equipment:**

Eye bath and safety shower.

**Work/Hygienic Practices:**

Wear disposable protective clothing to facilitate recovery of any materials spilled. Use adequate ventilation.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and Odor:</b>	Red liquid with solvent odor
<b>Specific Gravity (Water = 1):</b>	> 1
<b>Boiling Point:</b>	N/A
<b>Evaporation Rate:</b>	Slower than butyl acetate
<b>Melting Point:</b>	N/A
<b>Vapor Density (Air = 1):</b>	Heavier than air
<b>Vapor Pressure:</b>	N/A
<b>Water Solubility, %:</b>	Insoluble
<b>Percent Volatiles by Volume:</b>	Not less than 35%
<b>PH:</b>	N/A

## 10. STABILITY AND REACTIVITY

**Stability**      **Unstable:**      **Stable:** X

**Conditions To Avoid**

Avoid heating substance where it may be inhaled, open flames, oxidizers and sources of ignition. Solvent vapors are heavier than air and can accumulate, travel to sources of ignition and flash back.

**Incompatibility (Materials To Avoid)**

Oxidizers such as chlorates, perchlorates, permanganates, and nitrates. If the preparation comes into contact with ammonia, explosive gold compounds may be formed. Ammoniacal gold solutions should never be stored.

**Hazardous Decomposition or Byproducts**

Carbon dioxide, carbon monoxide, hydrochloric acid, oxides of sulfur and carbonaceous fumes.

**Hazardous Polymerization**      **May Occur:**      **Will Not Occur:** X

**Conditions To Avoid:** N/A

## 11. TOXICOLOGICAL INFORMATION

**Routes Of Entry**      **Inhalation:** yes      **Skin:** yes      **Ingestion:** yes

**Health Hazards (Acute and Chronic)**

Short-term liquid or vapor contact may result in slight eye irritation. Prolonged and repeated contact may be more irritating. Prolonged and liquid contact can cause defatting and drying of the skin, which may result in skin irritation and dermatitis. Solvents can act as central nervous system depressants, exhibiting narcotic and anesthetic effects. Overexposure to some of these components may cause headaches, nausea, vomiting, drowsiness, diarrhea, liver and kidney damage.

**Carcinogenicity**      **NTP:** yes      **IARC Monographs:** yes

**OSHA Regulated:** Yes; Chromium Compounds

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**

Return accumulated residues, to refinery for metals recovery. Follow local, state and federal regulations for packaging, labeling, manifesting, transportation and disposal.

#### 14. TRANSPORT INFORMATION

##### U.S. Department of Transportation Information

**DOT Shipping Name:** Consumer Commodity ORM-D  
**DOT Hazard Class:** Glazes or Stains OA/OG 88690 Sub. 1  
**U.N. Number:** 1950

#### 15. REGULATORY INFORMATION

##### **California Proposition 65**

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

##### **TSCA Certification**

All chemicals in this product are listed, or are exempt from listing, on the TSCA inventory.



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>AICS</b>	Aboriginal Independent Community Schools
<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>DSL</b>	Domestic Substances List
<b>ECL</b>	Education Counseling Service
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>ENCS</b>	Existing and New Chemical Substances
<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
<b>IARC</b>	International Agency for Research on Cancer
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMO</b>	International Maritime Organization
<b>LD</b>	Lethal Dose
<b>mg / kg</b>	Milligram per kilogram
<b>MITI</b>	Ministry of International Trade and Industry
<b>mm</b>	Millimeter

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### 16. OTHER INFORMATION (Continued)

#### Table of Abbreviations (Continued)

<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>TDG</b>	Transport Dangerous Goods
<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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