

MATERIAL SAFETY DATA SHEET

1. COMPANY AND PRODUCT IDENTIFICATION

DUNCAN ENTERPRISES
5673 Fast Shields Avenue

559-291-9444 (Fax)

5673 East Shields Avenue Health Emergency: **Fresno, CA 93727**

559-291-4444 7:00 am - 3:30 pm

559-291-4444 Spill and Off-Hour

Health Emergencies: 800-424-9300 U.S. and Canada

EMERGENCY TELEPHONE NUMBERS

703-527-3887 Outside U.S. and

Canada (Collect)

Pacific Standard Time

Product Name: DUNCAN OG 803 MOTHER OF PEARL Solvent - Based Metallic Overglaze

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	OSHA PEL	ACGIH TLV	CAS#	%
Cyclohexanol	50 ppm (skin)	50 ppm (skin)	108-93-0	30-35
Cyclohexanone	50 ppm	25 ppm	108-94-1	5-10
*o-Dichlorobenzene	50 ppm (C)	25 ppm	95-50-1	5-10
Stoddard Solvent	500 ppm	100 ppm	8052-41-3	5-10

Other Information
(C) Ceiling Limit Value
*Withheld as a trade secret.

3. HAZARDS IDENTIFICATION

HMIS Hazard Ratings for Product

Health:3*0 = MinimalFlammability:41 = SlightReactivity:02 = ModeratePersonal Protection:See Section 83 = Serious4 = 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: 103°F (Setaflash Closed Cup)
Flammable Limits LEL: N/A UEL: N/A

Extinguishing Media

CO₂, 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 or respiratory protection. To insure proper respirator selection and use, refer to the requirements of 29 CFR 1910.134 and the latest addition of ANSIZ 88.2.

Ventilation

Local Exhaust: Fume hood at point of generation with sufficient exhaust **Mechanical (General):** Must be sufficient to remove vapors from breathing zone

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

Appearance and Odor: Dark blue liquid with solvent odor

Specific Gravity (Water = 1): > 1
Boiling Point: N/A
Evaporation Rate (butyl acetate = 1): > 1
Melting Point: N/A

Vapor Density (Air = 1): Heavier than air

Vapor Pressure: N/A
Water Solubility, %: Insoluble

Percent Volatiles by Volume: Not less than 50%

PH: 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 under normal conditions of use

Eyes: No Inhalation: Yes Skin: Yes Ingestion: No

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 repeated liquid contact can cause defatting and drying of the skin which may result in skin irritation and dermatitis. Avoid breathing vapor or spray. 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

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.

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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

ACGIH American Conference of Governmental Industrial Hygienists

AICS Aboriginal Independent Community Schools
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
DSL Domestic Substances List
ECL Education Counseling Service

EINECS European Inventory of Existing Commercial Chemical Substances

ENCS Existing and New Chemical Substances
EPA Environmental Protection Agency

°F Degrees Fahrenheit

FDA Food & Drug Administration

Hg Mercury

HMIS Hazardous Materials Identification System
 IARC International Agency for Research on Cancer
 IATA International Air Transport Association

ICAO International Civil Aviation Organization
IMO International Maritime Organization

LD Lethal Dose

mg / kg Milligram per kilogram

MITI Ministry of International Trade and Industry

mm Millimeter

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16. OTHER INFORMATION (Continued)

Table of Abbreviations (Continued)

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

STELShort-Term Exposure LimitTDGTransport Dangerous GoodsTSCAToxic Substances Control ActTWATime - Weighted Average

U.N. United Nations

WHMIS Workplace Hazardous Materials Information System

Greater ThanLess Than

Creation Date: 05/98
Revision Date: 06/23/05
Technical Contact: Candi Prado

Senior R&D Specialist Duncan Enterprises 5673 East Shields Avenue

Fresno, CA 93727 559-291-4444 559-291-9444 (Fax)

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.