



**1. COMPANY AND PRODUCT IDENTIFICATION**

**iLoveToCreate**  
A Duncan Enterprises Company  
5673 East Shields Avenue  
Fresno, CA 93727  
559-291-4444  
559-291-9444 (Fax)

**EMERGENCY TELEPHONE NUMBERS**

**Health Emergencies:**  
559-291-4444 7:00 am – 3:30 pm Pacific Std. 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 803 MOTHER OF PEARL  
**Product Description:** Solvent - Based Metallic Overglaze

**2. HAZARDS IDENTIFICATION**

HMIS Hazard Ratings for Product		Rating Scale:
Health	2*	0 = Minimal
Flammability	2	1 = Slight
Reactivity	0	2 = Moderate
Personal Protection	See Section 8	3 = Serious
		4 = Severe
		* = Chronic Effects

NFPA Hazard Ratings for Product		Rating Scale:
Health	2	0 = Minimal
Flammability	2	1 = Slight
Reactivity	0	2 = Moderate
		3 = Serious
		4 = Severe

**Chemical characterization**

**Description:** Mixture of the substances listed below with nonhazardous additions.

**Hazardous Components**

Chemical Name	CAS #	EINECS	RTECS	Weight %	R-Phrases
Cyclohexanol	108-93-0	203-630-6	GV 7875000	0.5-1%	20,22,37,38
Rosin	8050-09-7	232-475-7	-----	10-25%	43
Pine Oil	8002-09-3	304-455-9	-----	10-25%	38
Stoddard solvent	76-22-2	200-945-0	EX1225000	10-25%	10, 65
Cyclohexanone	8052-41-3	232-489-3	WJ 8925000	10-25%	10, 20
1,2-dichlorobenzene	95-50-1	202-425-9	CZ 4500000	25-50%	22,36,37,38,50,53

Number	R-Phrase	Number	R-Phrase
10	Flammable	37	Irritating to Respiratory System
11	Highly Flammable	43	May cause sensitization by skin contact
20	Harmful by Inhalation	50	Very toxic to aquatic organisms
22	Harmful if Swallowed	53	May cause long-term adverse effects in the aquatic environment
36	Irritating to Eyes	65	Harmful: May cause lung damage if swallowed
38	Irritating to Skin		

**iLoveToCreate Material Safety Data Sheet – Duncan OG 803 Mother of Pearl**

**2. HAZARDS IDENTIFICATION (Continued)**

<b>Hazard description:</b>	Xn Harmful N Dangerous for the environment
<b>Canadian Hazard</b>	B3 - Combustible liquid
<b>Symbols:</b>	D2B - Toxic material causing other toxic effects
<b>Information pertaining to particular dangers for man and environment:</b>	Harmful by inhalation and if swallowed. Irritating to respiratory system and skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Only for trade users
<b>Classification system:</b>	The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Chemical characterization</b>				
<b>Description:</b> Mixture of the substances listed below with nonhazardous additions.				
<b>Main Components</b>				
<b>Chemical Name</b>	<b>CAS #</b>	<b>EINECS</b>	<b>RTECS</b>	<b>Weight %</b>
Cyclohexanol	108-93-0	203-630-6	GV 7875000	0.5-1%
Rosin	8050-09-7	232-475-7	-----	10-25%
Pine Oil	8002-09-3	304-455-9	-----	10-25%
Stoddard solvent	76-22-2	200-945-0	EX1225000	10-25%
Cyclohexanone	8052-41-3	232-489-3	WJ 8925000	10-25%
1,2-dichlorobenzene	95-50-1	202-425-9	CZ 4500000	25-50%

**4. FIRST AID MEASURES**

<b>General information:</b>	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
<b>After inhalation:</b>	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. In case of unconsciousness place patient stably in side position for transportation.
<b>After skin contact:</b>	Remove contaminated clothing and wash skin with soap and water. Wash or clean clothing before reuse.
<b>After eye contact:</b>	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
<b>After swallowing:</b>	Immediately call a doctor

**5. FIRE FIGHTING MEASURES**

<b>Suitable extinguishing agents:</b>	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
<b>Protective equipment:</b>	Wear full firefighting gear and SCBA

**iLoveToCreate Material Safety Data Sheet – Duncan OG 803 Mother of Pearl**

**6. ACCIDENTAL RELEASE MEASURES**

<b>Person-related safety precautions:</b>	Wear protective equipment. Keep unprotected persons away.
<b>Measures for environmental protection:</b>	Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
<b>Measures for cleaning/collecting:</b>	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

**7. HANDLING AND STORAGE**

<b>Handling</b>	
<b>Information for safe handling:</b>	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
<b>Information about protection against explosions and fires:</b>	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

<b>Storage</b>	
<b>Requirements to be met by storerooms and receptacles:</b>	No special requirements
<b>Information about storage in one common storage facility:</b>	Not required
<b>Further information about storage conditions:</b>	Keep receptacle tightly sealed

**8. EXPOSURE CONTROL AND PERSONAL PROTECTION**

<b>Additional information about design of technical systems:</b>	
The application of this product requires well exhausted firing kilns and efficient ventilation of working areas.	
<b>Components with limit values that require monitoring at the workplace:</b>	
There is no PEL established for this mixture. Recommend monitoring based upon the components in the mixture.	

<b>Personal protective equipment:</b>	
<b>General protective and hygienic measures:</b>	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
<b>Protection of hands:</b>	Protective gloves
<b>Material of gloves:</b>	Nitrile rubber, NBR, Chemical resistant gloves
<b>Eye protection:</b>	Tightly sealed goggles

**iLoveToCreate Material Safety Data Sheet – Duncan OG 803 Mother of Pearl**

**8. EXPOSURE CONTROL AND PERSONAL PROTECTION (Continued)**

<b>Chemical Name</b>	<b>CAS #</b>	<b>PEL</b>	<b>REL</b>	<b>TLV</b>
Cyclohexanol	108-93-0	200 mg/m <sup>3</sup> , 50 ppm	200 mg/m <sup>3</sup> , 50 ppm Skin	206 mg/m <sup>3</sup> , 50 ppm Skin
Rosin	8050-09-7			SEN; L
Stoddard solvent	76-22-2	2900 mg/m <sup>3</sup> , 500 ppm	Short-term value: C 1800* mg/m <sup>3</sup> Long-term value: 350 mg/m <sup>3</sup> *15-min	525 mg/m <sup>3</sup> , 100 ppm
Cyclohexanone	8052-41-3	200 mg/m <sup>3</sup> , 50 ppm	100 mg/m <sup>3</sup> 25 ppm Skin	50 mg/m <sup>3</sup> , 20 ppm Skin
1,2-dichloro- benzene	95-50-1	Short-term value: C 300 mg/m <sup>3</sup> , C 50 ppm	Short-term value: C 300 mg/m <sup>3</sup> , C 50 ppm	Short-term value: 301 mg/m <sup>3</sup> , 50 ppm Long-term value: 150 mg/m <sup>3</sup> , 25 ppm

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form:</b>	Fluid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic
<b>Melting point/Melting range:</b>	Undetermined
<b>Boiling point/Boiling range:</b>	153°C (307°F)
<b>Flash point:</b>	40°C (104°F) (ISO 3679)
<b>Ignition temperature:</b>	230°C (446°F)
<b>Auto igniting:</b>	Product is not self igniting
<b>Danger of Explosion:</b>	Not an explosion hazard
<b>Lower Explosive Limit:</b>	2.0 Vol %
<b>Upper Explosive Limit:</b>	11.2 Vol %
<b>Vapor pressure at 20°C (68°F):</b>	1.3 hPa (3 mm Hg)
<b>Density:</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>pH-value:</b>	Neutral
<b>Organic solvents:</b>	32.6 %
<b>Water:</b>	0.0 %
<b>Solids Content:</b>	49.7%

**10. STABILITY AND REACTIVITY**

<b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used according to specifications
<b>Dangerous reactions:</b>	No dangerous reactions known
<b>Dangerous products of decomposition:</b>	No dangerous decomposition products known

**iLoveToCreate Material Safety Data Sheet – Duncan OG 803 Mother of Pearl**

**11. TOXICOLOGICAL INFORMATION**

Chemical Name	CAS #	Oral	Dermal	Inhalation
Cyclohexanol	108-93-0	Oral LD50 2060 mg/kg (rat)	-----	-----
Pine Oil	8002-09-3	Oral LD50 2000 mg/kg (rat)	-----	-----
Cyclohexanone	8052-41-3	Oral LD50 1900 mg/kg (rat)	Dermal LD50 948 mg/kg (rabbit)	Inhalation LC50/4 h 8000 mg/l (rat)
1,2-dichloro-benzene	95-50-1	LD50 500 mg/kg (rat)	-----	-----

<b>Primary irritant effect:</b>	
<b>Skin:</b>	Irritant to skin and mucous membranes.
<b>Eye:</b>	Irritating effect.
<b>Sensitization:</b>	No sensitizing effects known.
<b>Additional toxicological information:</b>	The product shows the following dangers according to internally approved calculation methods for preparations: Harmful, Irritant

**12. ECOLOGICAL INFORMATION**

Chemical Name	CAS #	Oral EC50/48 h	Oral LC50/48 h	Oral LC50/96 h
Cyclohexanone	8052-41-3	820 mg/l (daphnia)	536 mg/l (fish)	(dynamic) 527 mg/l (fish)

<b>Remark:</b> Very toxic to fish	
<b>General notes:</b>	
Water hazard class 3 (Self-assessment): extremely hazardous for water	
Do not allow product to reach ground water, water course or sewage system, even in small quantities.	
Danger to drinking water if even extremely small quantities leak into the ground.	
Also poisonous for fish and plankton in water bodies.	
Very toxic for aquatic organisms	

**13. DISPOSAL CONSIDERATIONS**

<b>Product Recommendation:</b>	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
<b>Uncleaned packaging Recommendation:</b>	Disposal must be made according to official regulations.

**14. TRANSPORT INFORMATION**

<b>DOT Regulations</b>	
<b>Hazard class:</b>	3
<b>Identification number:</b>	UN1263
<b>Packing group:</b>	III
<b>Proper shipping name (technical name):</b>	PAINT
<b>Label:</b>	3

**iLoveToCreate Material Safety Data Sheet – Duncan OG 803 Mother of Pearl**

**14. TRANSPORT INFORMATION (Continued)**

<b>Land Transport ADR/RID (cross-border):</b>	
<b>ADR/RID class:</b>	3 Flammable liquids
<b>Danger code (Kemler):</b>	30
<b>UN-Number:</b>	1263
<b>Packaging group:</b>	III
<b>Description of goods:</b>	1263 PAINT

<b>Maritime Transport IMDG:</b>	
<b>IMDG Class:</b>	3
<b>UN Number:</b>	1263
<b>Label:</b>	3
<b>Packaging group:</b>	III
<b>EMS Number:</b>	F-E,S-E
<b>Marine pollutant:</b>	Yes
<b>Proper shipping name:</b>	PAINT

<b>Air Transport ICAO-TI and IATA-DGR</b>	
<b>ICAO/IATA Class:</b>	3
<b>· UN/ID Number:</b>	1263
<b>· Label:</b>	3
<b>· Packaging group:</b>	III
<b>· Proper shipping name:</b>	PAINT

**15. REGULATORY INFORMATION**

<b>SARA (Superfund Amendment and Reauthorization Act)</b>	
<b>Section 355 (extremely hazardous substances):</b>	None of the ingredients are listed
<b>Section 313 (Specific toxic chemical listings)</b>	95-50-1 1,2-dichlorobenzene 108-93-0 cyclohexanol

**TSCA (Toxic Substances Control Act):** All ingredients are listed

<b>California Proposition 65</b>	
<b>Chemicals known to cause cancer:</b>	8052-41-3 Stoddard solvent
<b>Chemicals known to cause reproductive toxicity for females:</b>	None of the ingredients are listed
<b>Chemicals known to cause reproductive toxicity for males:</b>	None of the ingredients are listed
<b>Chemicals known to cause developmental toxicity:</b>	None of the ingredients are listed

<b>Canadian Ingredient disclosure list</b>	
<b>Limit 0.1%:</b>	108-94-1 Cyclohexanone
<b>Limit 1%:</b>	108-93-0 Cyclohexanol 8052-41-3 Stoddard solvent 95-50-1 1,2-dichlorobenzene

**iLoveToCreate Material Safety Data Sheet – Duncan OG 803 Mother of Pearl**

**15. REGULATORY INFORMATION (Continued)**

<b>Carcinogenicity Categories:</b>	
<b>EPA (Environmental Protection Agency):</b>	95-50-1 1,2-dichlorobenzene
<b>IARC (International Agency for Research on Cancer):</b>	None of the ingredients are listed.
<b>NTP (National Toxicology Program):</b>	None of the ingredients are listed.
<b>TLV (Threshold Limit Value established by ACGIH):</b>	108-94-1 cyclohexanone A3 95-50-1 1,2-dichlorobenzene A4
<b>MAK (German Maximum Workplace Concentration):</b>	108-94-1 cyclohexanone 3B 6.0%
<b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b>	None of the ingredients are listed.
<b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b>	None of the ingredients are listed.

<b>Product related hazard information:</b>	The product has been marked in accordance with national laws.
<b>Hazard symbols:</b>	Xn Harmful N Dangerous for the environment
<b>Hazard-determining components of labeling:</b>	Rosin Cyclohexanol 1,2-dichlorobenzene
<b>Risk phrases:</b>	Harmful by inhalation and if swallowed. Irritating to respiratory system and skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
<b>Safety phrases:</b>	Harmful by inhalation and if swallowed. Irritating to respiratory system and skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
<b>Safety labeling of Certain Preparations:</b>	Only for trade users



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**

<b>Table of Abbreviations</b>	
<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

**iLoveToCreate Material Safety Data Sheet – Duncan OG 803 Mother of Pearl**

**16. OTHER INFORMATION (Continued)**

<b>Table of Abbreviations</b>	
<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>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EPA</b>	Environmental Protection Agency
<b>°F</b>	Degrees Fahrenheit
<b>FDA</b>	Food & Drug Administration
<b>g / l</b>	Grams per liter
<b>Hg</b>	Mercury
<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>REL</b>	Recommended Exposure Limit
<b>RTECS</b>	Registry of Toxic Effects of Chemical Substances
<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



**iLoveToCreate Material Safety Data Sheet – Duncan OG 803 Mother of Pearl**

**16. OTHER INFORMATION (Continued)**

<b>Creation Date:</b>	05/98
<b>Revision Date:</b>	03/21/10
<b>Technical Contact:</b>	Frank Peters Research & Development Manager iLoveToCreate A Duncan Enterprises Company 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.