



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 801 BRIGHT GOLD
Product Description: Solvent - Based Metallic Overglaze

2. HAZARDS IDENTIFICATION

HMIS Hazard Ratings for Product		Rating Scale:
Health	2*	0 = Minimal
Flammability	3	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	3	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
Eucalyptus Globulus Extract	84625-32-1	283-406-2	-----	25-50%	10
Pin-2(3)-ene	80-56-8	201-291-9	-----	5-10%	10,36,38,51,53,65
Clove Oil	84961-50-2	284-638-7	-----	5-10%	21,22,38
Turpentine, oil	8006-64-2	232-350-7	YO8400000	1-5%	10,20,21,22,36,38,43,51,53,65
1,2-dichlorobenzene	95-50-1	202-425-9	CZ 4500000	1-5%	22,36,37,38,50,53
Rosemary Extract	84604-14-8	283-291-9	-----	1-5%	10,65
Xylene, mixture of isomers	1330-20-7	215-535-7	ZE 2100000	< 0.5%	10,20,21,38
Anethole	104-46-1	203-205-5	BZ 8925000	< 0.5%	51,53
Stoddard Solvent	76-22-2	200-945-0	EX1225000	< 0.5%	10, 65
Isophorone	78-59-1	201-126-0	GW 7700000	< 0.5%	21,22,36,37,40

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2. HAZARDS IDENTIFICATION (Continued)

Number	R-Phrase	Number	R-Phrase
10	Flammable	38	Irritating to Skin
11	Highly Flammable	40	Limited Evidence of Carcinogenic Effect
20	Harmful by Inhalation	43	May cause sensitization by skin contact
21	Harmful by Skin Contact	50	Very toxic to aquatic organisms
22	Harmful if Swallowed	51	Toxic to aquatic organisms
36	Irritating to Eyes	53	May cause long-term adverse effects in the aquatic environment
37	Irritating to Respiratory System	65	Harmful: May cause lung damage if swallowed

Hazard description:	Xn Harmful N Dangerous for the environment
Canadian Hazard Symbols:	B3 - Combustible liquid D2B - Toxic material causing other toxic effects
Information pertaining to particular dangers for man and environment:	Flammable. Harmful by inhalation. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Harmful: may cause lung damage if swallowed. Only for trade users
Classification system:	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

Chemical Name	CAS #	EINECS	RTECS	Weight %
Eucalyptus Globulus Extract	84625-32-1	283-406-2	-----	25-50%
Linalool	78-70-6	201-134-4	RG 5775000	5-10%
Pin-2(3)-ene	80-56-8	201-291-9	-----	5-10%
Clove Oil	84961-50-2	284-638-7	-----	5-10%
Turpentine, oil	8006-64-2	232-350-7	YO8400000	1-5%
Lavender Oil	84776-65-8	239-994-0	-----	1-5%
1,2-dichlorobenzene	95-50-1	202-425-9	CZ 4500000	1-5%

4. FIRST AID MEASURES

General information:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation:	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.
After skin contact:	Remove contaminated clothing and wash skin with soap and water. Wash or clean clothing before reuse.
After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:	Immediately call a doctor

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5. FIRE FIGHTING MEASURES

Suitable extinguishing agents:	CO ₂ , sand, extinguishing powder. <u>Do not use water.</u>
For safety reasons <u>unsuitable</u> extinguishing agents:	Water
Protective equipment:	Water with full jet
	Wear full firefighting gear and SCBA

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection:	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.
Measures for cleaning/collecting:	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

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

Storage	
Requirements to be met by storerooms and receptacles:	No special requirements
Information about storage in one common storage facility:	Do not store together with oxidizing and acidic materials.
Further information about storage conditions:	Keep receptacle tightly sealed

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

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

Personal protective equipment:	
General protective and hygienic measures:	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.
Protection of hands:	Protective gloves
Material of gloves:	Nitrile rubber, NBR, Chemical resistant gloves
Eye protection:	Tightly sealed goggles

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8. EXPOSURE CONTROL AND PERSONAL PROTECTION (Continued)

Chemical Name	CAS #	PEL	REL	TLV
Pin-2(3)-ene	80-56-8			112 mg/m ³ , 20 ppm SEN
1,2-dichloro-benzene	95-50-1	Short-term value: C 300 mg/m ³ , C 50 ppm	Short-term value: C 300 mg/m ³ , C 50 ppm	Short-term value: 301 mg/m ³ , 50 ppm Long-term value: 150 mg/m ³ , 25 ppm
1330-20-7 Xylene, mixture of isomers	1330-20-7	435 mg/m ³ , 100 ppm	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI
Stoddard solvent	76-22-2	2900 mg/m ³ , 500 ppm	Short-term value: C 1800* mg/m ³ Long-term value: 350 mg/m ³ *15-min	525 mg/m ³ , 100 ppm
Isophorone	78-59-1	140 mg/m ³ , 25 ppm	23 mg/m ³ , 4 ppm	Short-term value: C 28 mg/m ³ , C 5 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Fluid
Color:	According to product specification
Odor:	Characteristic
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	156°C (313°F)
Flash point:	33°C (91°F) (ISO 3679)
Ignition temperature:	235°C (455°F)
Auto igniting:	Product is not self igniting
Danger of Explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.
Density:	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
pH-value:	Neutral
Organic solvents:	65.7 %
Water:	0.0 %
Solvent (USA):	657.4 g/l 5.49 lb/gal
Solids Content:	13.4%

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10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Chemical Name	CAS #	Oral	Dermal	Inhalation
Turpentine, oil	8006-64-2	Oral LD50 5760 mg/kg (rat)	-----	-----
1,2-dichlorobenzene	95-50-1	LD50 500 mg/kg (rat)	-----	-----
Rosemary Extract	84604-14-8	Oral LD50 5000 mg/kg (rat)	-----	-----

Primary irritant effect:	
Skin:	Irritant to skin and mucous membranes.
Eye:	Irritating effect.
Sensitization:	Sensitization possible through skin contact
Additional toxicological information:	The product shows the following dangers according to internally approved calculation methods for preparations: Harmful, Irritant

12. ECOLOGICAL INFORMATION

Chemical Name	CAS #	Oral EC50/24 h	Oral LC50/48 h	Oral LC50/96 h
Rosemary Extract	84604-14-8	25.2 mg/l (daphnia)	-----	-----

Remark: Very toxic to fish	
General notes:	
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. Toxic for aquatic organisms	

13. DISPOSAL CONSIDERATIONS

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

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14. TRANSPORT INFORMATION

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

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

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

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

15. REGULATORY INFORMATION

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

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

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


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15. REGULATORY INFORMATION (Continued)

Canadian Ingredient disclosure list	
Limit 0.1%:	None of the ingredients are listed
Limit 1%:	80-56-8 Pin-2(3)-ene 8006-64-2 Turpentine Oil 95-50-1 1,2-dichlorobenzene

Carcinogenicity Categories:	
EPA (Environmental Protection Agency):	95-50-1 1,2-dichlorobenzene
IARC (International Agency for Research on Cancer):	None of the ingredients are listed.
NTP (National Toxicology Program):	None of the ingredients are listed.
TLV (Threshold Limit Value established by ACGIH):	80-56-8 Pin-2(3)-ene A4 95-50-1 1,2-dichlorobenzene A4
MAK (German Maximum Workplace Concentration):	78-59-1 Isophorone 3B 0.282%
NIOSH-Ca (National Institute for Occupational Safety and Health):	None of the ingredients are listed.
NIOSH-Ca (National Institute for Occupational Safety and Health):	None of the ingredients are listed.

Product related hazard information:	The product has been marked in accordance with national laws.
Hazard symbols:	Xn Harmful N Dangerous for the environment
Hazard-determining components of labeling:	Turpentine Oil
Risk phrases:	Flammable. Harmful by inhalation. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Harmful: may cause lung damage if swallowed.
Safety phrases:	Keep away from oxidizing agents and acidic substances Do not breathe fumes Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. Use appropriate container to avoid environmental contamination.
Safety labeling of Certain Preparations:	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.
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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
EINECS	European Inventory of Existing Commercial Chemical Substances
EPA	Environmental Protection Agency
°F	Degrees Fahrenheit
FDA	Food & Drug Administration
g / l	Grams per liter
DOT	Department of Transportation
EPA	Environmental Protection Agency
°F	Degrees Fahrenheit
FDA	Food & Drug Administration
g / l	Grams per liter
Hg	Mercury
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
LD	Lethal Dose
mg / kg	Milligram per kilogram
mm	Millimeter
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
REL	Recommended Exposure Limit
RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendment and Reauthorization Act
STEL	Short-Term Exposure Limit
TSCA	Toxic Substances Control Act
TWA	Time - Weighted Average
U.N.	United Nations
WHMIS	Workplace Hazardous Materials Information System
>	Greater Than
<	Less Than

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16. OTHER INFORMATION (Continued)

Creation Date:	05/98
Revision Date:	03/20/10
Technical Contact:	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.