



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 802 WHITE 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
Cyclohexanone	108-94-1	203-631-1	GW 1050000	10-50%	10,20
Clove Oil	84961-50-2	284-638-7	-----	1-5%	21,22,38

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

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2. HAZARDS IDENTIFICATION (Continued)

Hazard description:	Xn Harmful F Flammable Liquid and Vapor N Dangerous for the environment
Canadian Hazard Symbols:	B2 - Flammable liquid D2B - Toxic material causing other toxic effects
Information pertaining to particular dangers for man and environment:	Highly flammable. Harmful by inhalation and if swallowed. Irritating to skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
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 characterization				
Description: Mixture of the substances listed below with nonhazardous additions.				
Main Components				
Chemical Name	CAS #	EINECS	RTECS	Weight %
Isobutyl Acetate	110-19-0	203-745-1	-----	10-50%
Cyclohexanone	108-94-1	203-631-1	GW 1050000	10-50%
Clove Oil	84961-50-2	284-638-7	-----	1-5%
Sulphurized Terpeneol and Turpentine	72828-31-0	-----	-----	< 0.5%
Pine Oil	8002-09-3	304-455-9		< 0.5%
Cyclohexanol	108-93-0	203-630-6	GV 7875000	< 0.5%

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

5. FIRE FIGHTING MEASURES

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

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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. Do not flush with water or aqueous cleansing agents.

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:	Store in a cool location.
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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9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Fluid
Color:	According to product specification
Odor:	Characteristic
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	117°C (243°F)
Flash point:	18°C (64°F) (ISO 3679)
Ignition temperature:	405°C (761°F)
Auto igniting:	Product is not self igniting
Danger of Explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.
Lower Explosive Limit:	1.3 Vol%
Upper Explosive Limit:	10.5 Vol%
Vapor pressure at 20°C (68°F):	20 hPa (15 mm Hg)
Density:	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
pH-value:	Neutral
Organic solvents:	1.5 %
Water:	0.0 %
Solids Content:	22.6%

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

Acute Toxicity	
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

Remark: Toxic to fish
General notes: Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

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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.

14. TRANSPORT INFORMATION

DOT Regulations	
Hazard class:	3
Identification number:	UN11993
Packing group:	II
Proper shipping name (technical name):	FLAMMABLE LIQUID, N.O.S. (ISOBUTYL ACETATE, CYCLOHEXANONE)
Label:	3

Land Transport ADR/RID (cross-border):	
ADR/RID class:	3 Flammable liquids
Danger code (Kemler):	33
UN-Number:	1993
Packaging group:	II
Description of goods:	1993 FLAMMABLE LIQUID, N.O.S. (ISOBUTYL ACETATE, CYCLOHEXANONE)

Maritime Transport IMDG:	
IMDG Class:	3
UN Number:	1993
Label:	3
Packaging group:	II
EMS Number:	F-E,S-E
Marine pollutant:	Yes
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (ISOBUTYL ACETATE, CYCLOHEXANONE)

Air Transport ICAO-TI and IATA-DGR	
ICAO/IATA Class:	3
· UN/ID Number:	1993
· Label:	3
· Packaging group:	II
· Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (ISOBUTYL ACETATE, CYCLOHEXANONE)

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)	None of the ingredients are listed

TSCA (Toxic Substances Control Act):	All ingredients are listed
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15. REGULATORY INFORMATION (Continued)

California Proposition 65	
Chemicals known to cause cancer:	None of the ingredients are listed
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

Canadian Ingredient disclosure list	
Limit 0.1%:	None of the ingredients are listed
Limit 1%:	None of the ingredients are listed

Carcinogenicity Categories:	
EPA (Environmental Protection Agency):	None of the ingredients are listed.
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):	None of the ingredients are listed.
MAK (German Maximum Workplace Concentration):	None of the ingredients are listed.
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 F Flammable Liquid and Vapor N Dangerous for the environment
Hazard-determining components of labeling:	Turpentine Oil
Risk phrases:	Highly Flammable. Harmful by inhalation and if swallowed. Irritating to skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Safety phrases:	Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes. Wear suitable gloves. 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
SDS	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
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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.