

Safety Data Sheet

1. COMPANY AND PRODUCT IDENTIFICATION

Duncan Enterprises

5673 East Shields Avenue Fresno, CA 93727 559-291-4444 559-291-9444 (Fax) www.duncan.com 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: Product use/description: Restrictions on use: Duncan Concepts Underglazes (all colors) Non-toxic ceramic underglazes None known

2. HAZARDS IDENTIFICATION

Classification:	This mixture does not meet criteria for classification.
Hazard statement:	Not applicable
Other hazards:	Not applicable
Signal word:	Not applicable
Precautionary	Not applicable
statement:	
Pictogram(s) by	Not applicable
GHS:	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Detailed formulation is submitted by the client and is proprietary information. Products are made by physical manipulation and chemical reaction from the ingredients. These ingredient chemicals may not exist as the original formula in final products. None of these ingredients are hazardous substances.

Reportable ingredients (if applicable): The components are not hazardous and are below the required disclosure limits.

4. FIRST AID MEASURES

General advice:	First aid personnel must be aware of their own risk during rescue.
On inhalation:	Seek fresh air. Get medical attention if symptoms persist.
On skin contact:	Wash skin thoroughly with soap and water. If symptoms develop or persist, seek medical attention.
On eye contact:	Flush eyes with water as a precaution. Get medical attention if irritation develops or
	persists. Direct contact with eyes may cause temporary irritation.
On ingestion:	Drink 1-2 glasses of water. Get medical attention. Never give anything by mouth to
	an unconscious person.
Acute/delayed symptoms:	No data
Medical advice:	Treat symptomatically.
Symptoms / effects:	No data
Special treatment needed:	No data

5. FIREFIGHTING MEASURES

	E	Extinguishing Media	
Suitable extinguishing media:	Product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.		
Unsuitable extinguishing media:	None known		
	Pro	tection of Firefighters	
Specific hazards arising from the chemical: None known		None known	
Protective equipment for firefighters:		Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: Follow the general fire precautions indicated in the workplace.	
Special precautions for fire fighters	s:	None known	
Will hazardous combustion occur?		Will not occur.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Keep unnecessary personnel away.
Environmental precautions:	Avoid discharge into drains, water courses, or onto the ground.
Methods for cleaning up:	Absorb spillage with suitable absorbent material. Collect and dispose of spillage as indicated in Section 13 of this SDS.
Recommended personal protective equipment:	See Section 8 of this SDS.

7. HANDLING AND STORAGE

Safe storage:	Store away from incompatible materials. Store in closed original container in a dry place. Storage temperature: between 4°C and 38°C. Protect from freezing.
Safe handling:	Avoid breathing mist/vapors/spray.
Known incompatibilities:	None known. Protect from freezing.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Occupational exposure limits: No exposure limit noted for ingredient(s). **Appropriate engineering controls:** No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as PPE (personal protective equipment):

Personal Protection Equipment:		
Respiratory protection:	Wear respiratory protection during operations where spraying or misting occurs.	
Eye protection:	Risk of splashes. Wear approved safety glasses or goggles.	
Hand protection:	Chemical-resistant gloves are recommended.	
Skin protection:	No special precautions	
Thermal protection:	No data	
General safety and	No specific hygiene procedures are noted, but good personal hygiene practices are	
hygiene measures:	always advisable, especially when working with chemicals.	
Further information:	Avoid release into the environment.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid
Various
Odorless
N/A
7 – 10
>100°C (>212°F)
1000°C (1832°F)
N/A
1 (n-Butyl acetate = 1)
N/A
Miscible in water
17.55 mm Hg 20°C
1.3 – 1.8
N/A
No data available
N/A
N/A
N/A
No data
No data

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions
Conditions to avoid:	Freezing
Incompatible materials:	None known
Hazardous decomposition	None known
products:	
Possibility of hazardous	Will not occur
reactions:	
Reactivity:	Stable under normal conditions
Hazardous polymerization:	Will not occur

11. TOXICOLOGICAL INFORMATION

Information on likely regited of experience	
Information on likely routes of exposure:	
Eye contact – serious eye damage or irritation	Direct contact with eyes may cause temporary irritation.
Skin contact – skin corrosion, sensitization or	Prolonged contact with skin may cause dryness of the
irritation:	skin.
Ingestion – carcinogenicity/aspiration hazard:	No data
Inhalation – respiratory sensitization/toxicity:	No data available
Symptoms related to the physical chemical and	No data
toxicological characteristics:	
Information on toxicological effects:	None known
Delayed or immediate effects:	No data available
Germ cell mutagenicity:	No data available
Specific target organ toxicity (single exposure):	No data available
Specific target organ toxicity (repeated exposure):	No data available
Chemicals listed on NTP, IARC or OSHA as a	None listed

carcinogen:				
Chemical Name:	Oral LD50	Dermal LD50	Inhalation LC50	Percentage

*Estimates for product may be based on additional component data not shown.

12. ECOLOGICAL INFORMATION (NON-MANDATORY)

Ecotoxicity:	Not expected to be harmful to aquatic organisms
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Aquatic / terrestrial warnings:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

13. DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Disposal instructions:	Dispose of in accordance with local regulations.	
Local disposal regulations:	Disposal must be in accordance with current applicable laws and regulations, and	
	material characteristics at time of disposal.	
Hazardous waste code:	None known. Waste codes should be assigned by the user based on the application	
	for which the product was used.	
Contaminated packaging:	Offer rinsed packaging materials to local recycling facilities.	
Waste residues:	Do not discharge into drains, water courses or onto the ground.	

14. TRANSPORTATION INFORMATION (NON-MANDATORY)

	DOT	IMDG	ΙΑΤΑ		
UN/ID number:	Not regulated	Not regulated	Not regulated		
Proper shipping name:	Not applicable				
Transport hazard class:	N/A	N/A	N/A		
Packing group (if applicable):	N/A	N/A	N/A		
Environmental provisions:	No data	No data	No data		
Special precautions:	No data	No data	No data		
Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code		No data			
Emergency Response Guide Nu	umber: No data	EmS-No: No data			

Pictograms				
US:	IATA; IMDG:	Marine Pollutant:		
None	None	None		

15. REGULATORY INFORMATION (NON-MANDATORY)

U.S. Federal Regulations:			
TSCA Section 12(b) Export Notification	Not regulated		
(40 CFR 707, Subpt. D):			
CERCLA (Superfund) reportable	Not regulated		
quantity (lbs.) (40 CFR 302.4)			
OSHA Specifically Regulated	Not regulated		
Substances (29 CFR 1910.1001-1050):			
Section 302 Extremely Hazardous	Not regulated		
Substance (40 CFR 355, Appendix A):			

Chemical	CAS	Reporta	able	Threshold	Threshold planning	Threshold planning	
Name:	Number:	Quant		planning quantity:	quantity, lower value:	quantity, upper value:	
None	X	Х			Х		
	Superfund Amendments and Reauthorization Act of 1986 (SARA)					N)	
SARA 304 Emergency release		No da		·····	/		
notification:							
SARA 311/312 (40 CFR 370)		No da	ata				
Hazardous Chemical:							
SARA 313 (TRI reporting):			Chemical Name:	CAS Number:	<u>% by wt.</u>	
•				None	None	None	
-	cement Admini		No da	ata			
	FR 1308.11-15						
	ct (CAA) Section		No data				
	Air Pollutants	(Haps)					
List:							
Clean Air A	ct (CAA) Sectio	on 112(r)	No da	ata			
Accidental	Release Preve	ntion					
(40 CFR 68.	.130):						
Safe Drinking Water Act (SDWA): No data							
Canadian Domestic Substances List (DSL):			No data				
				State Regulation	s		
TSCA:		This pro	duct is	manufactured in com	pliance with all provisions	of the Toxic	
			Substances Control Act, 15 U.S. C. 2601 et. Seq.				
FDA:		21 CFR 175.105					
SARA/Title	III:	This product does not contain any substances at or above the reported threshold					
		under Section 313, based on available data.					
	o Non-Toxic	Products are certified in a program of toxicological evaluation by a nationally					
ASTM-4236	:	recognized toxicologist to contain no materials in sufficient quantities to be toxic or					
		injurious to humans or to cause acute or chronic health problems. These products are					
		certified to be labeled in accordance with the voluntary chronic hazard labeling					
			standard ASTM D-4236. In addition, there is no physical hazard as defined within				
California	Proposition 65	29 CFR Part 1910.1200(c). This product contains the following chemicals that are known to the state of California					
Warning:		to cause cancer, birth defects, or other reproductive harm: none.					
HMIS III Rat	tina		Health=1, Flammability=0, Reactivity=0				
	Unless a concentration is specified in Section 2 of the SDS, the above chemicals(s) are present in trace amounts.					sent in trace amounts	
0111033 a UU			Cecliol	$1 \ge 01$ the ODO, the ab	ove chemicals(s) are pres		

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

16. OTHER INFORMATION

The recommendations and information contained in this SDS are compiled from sources believed to represent the most current information available when the SDS was prepared. However, the manufacturer / distributor of this product does not provide any warranty, guaranty of representation as to the correctness or sufficiency of this information. If this material is used in large amounts and/or an unusual manner, the user is obliged to determine what safety measures are appropriate, including the applicable and relevant workplace and environmental regulations pertaining to handling, use and disposal.

	Table of Abbreviations					
ACGIH:	American Conference of Governmental Industrial Hygienists	LD:	Lethal Dose			
ANSI:	American National Standards Institute	MARPOL:	Marine Pollution			
ASTM:	American Society for Testing Materials	mg / kg:	Milligram per Kilogram			
°C:	Degrees Centigrade	mm:	Millimeter			
CAA:	Clean Air Act	MSHA:	Mine Safety and Health Administration			
CAS:	Chemical Abstract Service	N/A:	Not Applicable			
CERCLA:	Comprehensive Environmental Response, Compensation & Liability Act	NFPA:	National Fire Protections Association			
CFR:	Code of Federal Regulations	NIOSH:	National Institute for Occupational Safety and Health			
CPR:	Controlled Products Regulations	NTP	National Toxicology Program			
DEA:	Drug Enforcement Act	OEL:	Over Exposure Limit			
DOT:	Department of Transportation	OSHA:	Occupational Safety and Health Administration			
DSL:	Canadian Domestic Substances List	PEL:	Permissible Exposure Limits			
EmS:	Emergency Medical Goods Services	ppm	Parts Per Million			
EPA:	Environmental Protection Agency	SARA	Superfund Amendment and Reauthorization Act			
°F:	Degrees Fahrenheit	STEL	Short-Term Exposure Limit			
FDA:	Food & Drug Administration	SDS:	Safety Data Sheet			
g/I:	Grams per Liter	SDWA:	Safe Drinking Water Act			
HAPs:	Hazardous Air Pollutants	TLV:	Threshold Limit Value			
Hg:	Mercury	TRI:	Toxics Release Inventory			
HMIS:	Hazardous Materials Identification System	TSCA	Toxic Substances Control Act			
HNOC:	Hazard(s) Not otherwise classified	TWA	Time – Weighted Average			
IARC:	International Agency for Research on Cancer	U.N.	United Nations			
IATA:	International Air Transport Association	WHMIS	Workplace Hazardous Materials Information System			
ID:	Identification / Identity	>	Greater Than			
IDLH:	Immediate Danger to Life or Health	<	Less Than			
IMDG:	International Maritime Dangerous Goods	73/78:	1973 & 1978			
LC:	Lethal Concentration					

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