

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.duncanceramics.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:
 Duncan Metallic Glazes (SY Series)

 Product Use/Description:
 Ceramic Underglaze

ltem	Description	ltem	Description
SY1024	Antique Pewter	SY1028	Bronze Patina
SY1025	Heirloom	SY1029	Rhodium
SY1026	Modern Brass	SY1030	Brass Halo
SY1027	Weathered Iron	SY1031	Burnished Bronze

Restrictions on use:

None known.

2. HAZARDS IDENTIFICATION

Classification:	Non-classified.	
Hazard Statement:	Causes eye irritation.	
Other Hazards:	None	
Signal Word:	Warning	
Precautionary	Do not get in eyes.	
Statement(s):	Wash thoroughly after handling	
	Do not eat, drink, or smoke when using this product.	
Pictogram(s) by GHS:	None	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Detailed formulation is submitted by the client and it is proprietary information.

Products are made by physical manipulation and chemical reaction from the ingredients. These chemicals may not exist as its original formula in final products.

The glaze is a mixture of ceramic material containing, water, non-leaded frits, clays, and other minerals and color pigments. Contains potential carcinogens: Crystalline silica (quartz) may be present in clays. Pigments may contain a very small amount of bound titanium dioxide, cobalt, chromium and other metals. Other ingredients present have unknown acute toxicity.

Reportable ingredients (if applicable):

Substance/Composition:	CAS Number:	Percentage/Range:	
Water	7732-18-5	45 – 50 %	
Various Clays	Varies	Proprietary	
Frit (non-lead bearing)	65997-18-4	4 – 50 %	
Silica (quartz)	14808-60-7	Proprietary	
Carboxymethylcellulose	9004-32-4	<2 %	
Cryolite	15096-52-3	<5 %	
Pignments	Varies	Proprietary	

4. FIRST AID MEASURES

General Advice:		
On Inhalation:	Seek fresh air. Remove from exposure.	
On Skin Contact:	Wash skin with soap and water.	
On Eye Contact:	May cause irritation. Flush eyes with large quantities of water for at least 15 minutes. Contact a physician if irritation continues.	
On Ingestion:	Contact a physician.	
Acute/Delayed Symptoms:	No data.	
Medical Advice:	Remove from exposure, flush eyes or skin with water. Contact a physician if irritation continues.	
Symptoms /Effects:	Irritation of the eye	
Special Treatment Needed:	None required under normal use.	

5. FIRE FIGHTING MEASURES

Extinguishing Media		
Suitable extinguishing media:	Water, CO ₂ , Foam	
Unsuitable extinguishing media:	extinguishing media: None	
Protection of Firefighters		
Specific hazards arising from the chemical:		No data.
Protective equipment for firefighters:		No data.
Special precautions for fire fighters:		No data.
Will hazardous combustion occur?		Will not occur.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	No data.
Environmental Precautions:	No data.
Methods for Cleaning Up:	Contain and use absorbed material for disposal. Rinse with water.
Emergency Procedures:	No data.
Recommended Personal Protective	None.
Equipment:	
Emergency Containment/Procedures:	No data.

7. HANDLING AND STORAGE

Safe Storage:	Protect from freezing.	
Safe Handling:	Avoid skin and eye contact. Wash hands after use, do not eat, drink or smoke in work areas.	
Known Incompatibilities:	None known.	

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Occupational Exposure Limits:				
	Chemical Name	TLV (ACGIH)	PEL (OSHA)	REL (NIOSH)
	Quartz	0.05 mg/m ³	N/A	N/A

Appropriate Engineering Controls: Adequate ventilation (local exhaust).

Individual Protection measures, such as PPE (Personal Protective Equipment):

Personal Protection Equipment:

Respiratory Protection: Adequate ventilation (local exhaust).

Eye Protection:	Safety glasses/goggles.
Hand Protection:	No data.
Skin Protection:	Protective clothing, such as aprons recommended.
Thermal Protection:	No data.
General Safety and Hygiene Measures:	None listed.
Further Information:	No data.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:	Liquid
Color:	Various
Odor:	Negligible
Odor Threshold:	Negligible
pH:	Unknown
Boiling Point/Range:	N/A
Melting Point/Range:	N/
Flash Point:	N/A
Evaporation Rate:	N/A
Vapor Density:	N/A
Solubility(ies) in water:	No
Vapor Pressure:	N/A
Relative Density:	N/A
Viscosity:	N/A
Partition Coefficient	N/A
(n-octanol/water), if applicable:	
Explosive Properties:	None
Flammability: (Solid, gas)	Unknown
Flammability Limit in Air:	Unknown
Upper/Lower	
Autoignition temperature:	N/A
Decomposition temperature:	None

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	None
Incompatible Materials:	None
Hazardous Decomposition Products:	None
Possibility of Hazardous Reactions:	None
Reactivity:	None; considered stable.
Hazardous polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:		
Eye Contact – Serious Eye Damage or Irritation	Could cause minor irritation.	
Skin Contact – Skin Corrosion, Sensitization or Irritation:	No data.	
Ingestion – Carcinogenicity/Aspiration Hazard:	No data.	
Inhalation – Respiratory Sensitization/Toxicity:	No data.	
Symptoms related to the physical chemical and toxicological	No data.	
characteristics:		
Information on toxicological effects:	No data.	
Delayed or Immediate effects:	No data.	
Germ Cell Mutagenicity:	No data.	

Specific target organ toxicity (single exposure):			No data.		
Specific target organ toxicity (repeated exposure):			No data.		
Chemicals listed on NTP, IARC or OSHA as a Carcinogen?:			Quartz, Chro	mium	
Chemical Name:	Oral LD50	De	rmal LD50	Inhalation LC50	
Carboxymethylcellulose	27,000 mg/kg	>2,	.000 mg/kg	5,800 mg/m ³	
Cryolite	>5,000 mg/kg	>2	000 mg/kg	No data.	

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

12. ECOLOGICAL INFORMATION (NON-MANDATORY)

Ecotoxicity:	Unknown.
Persistence and degradability:	Yes
Bioaccumulative potential:	Unknown.
Aquatic / Terrestrial warnings:	No data.
Mobility in soil:	Likely
Other adverse effects:	None known.

13. DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Disposal instructions:	Follow Local, State and Federal Regulations.
Local disposal regulations:	See above.
Hazardous waste code:	None
Contaminated packaging:	See above.
Waste residues:	No data.

14. TRANSPORTATION INFORMATION (NON-MANDATORY)

	DOT	<u> </u>	MDG	IATA
UN/ID number:	None	None		None
Proper shipping name:	None	None		None
Transport hazard class:	N/A	N/A		N/A
Packing group (if applicable):	None	None		None
Environmental Provisions:	None	None		None
Special Precautions:	None	None		None
Transport in bulk according to 73/78 and IBC Code	Annex II of MARPOL	No data.		
Emergency Response Guide Number: No data.		EmS-No:	No data.	
	Picto	grams		

<u>US:</u>	IATA; IMDG:	Marine Pollutant:
None	None	None

15. REGULATORY INFORMATION (NON-MANDATORY)

	US Federal Regula	tions:	
TSCA Section 12(b) Export Notification	In compliance.		
(40 CFR 707, Subpt. D):			
CERCLA (Superfund) reportable	No data.		
quantity (lbs.) (40 CFR 302.4)			
OSHA Specifically Regulated	No data.		
Substances (29 CFR 1910.1001-1050):			
Section 302 Extremely Hazardous	No data.		
Substance (40 CFR 355, Appendix A):			
Chemical CAS Reportable	Threshold	Threshold planning	Threshold planning

Name:	Number:	Quantity:	planning quantity:	quantity, lower value:	quantity, upper value:			
None	Х	Х	Х	Х	Х			
	Superfund Amendments and Reauthorization Act of 1986 (SARA)							
SARA 304 Emergency release notification:			No data.					
SARA 311/31	2 (40 CFR 370)) Hazardous	No data.					
Chemical:								
SARA 313 (T	RI reporting):		Chemical Name:	CAS Number:	<u>% by wt.</u>			
			None					
Drug Enforce	ement Admini	stration (DEA)	No data.	No data.				
(21 ČFR 1308		· · · ·						
Clean Air Ac	t (CAA) Sectio	on 112(r)	No data.					
Accidental R	elease Prever	ntion (40 CFR						
68.130):								
	g Water Act (S		No data.	No data.				
	mestic Subst	ances List	No data.					
(DSL):								
			State Regulation					
TSCA:			This product is manufactured in compliance with all provisions of the Toxic					
50.4		Substances Control Act, 15 U.S. C. 2601 et. Seq.						
FDA:		21 CFR 175.105: No data.						
SARA/Title II	1:	This product does not contain any substances at or above the reported threshold			e reported threshold			
Conforms to	Non-Toxic	under Section 313, based on available data. 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						
AUT M-4230.		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						
		29 CFR Part 1910.1200(c).						
	oposition 65			hemicals that are known t				
Warning:			-	er reproductive harm: Tra	ace amounts of: Quartz,			
			de, Cobalt, Chromiu					
		No special wa	arning is required un	der the provisions of C	A Prop 65 during use.			
HMIS III Rati			<u> </u>					
				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 have been 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 sufficient 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.

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3/9/16	1	
	2	3/10/16-JL
	3	10/27/17 – sp

END SAFETY DATA SHEET

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			