



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
 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 True Matte glazes
Product Description: Non-toxic, ceramic glaze
Colors: TM318 Downpour, TM317 Leather Jacket, TM316 Sea Glass, TM315 Frozen, TM314 Indigo, TM313 Heather, TM312 Succulent, TM311, Pineapple, TM310 Mango Tango, TM309 Flamingo, TM308 Sweet Dreams, TM307 Blushing, TM306 Baby Blues, TM305 Minted, TM304 Dreamsicle, TM302 Rainy, TM303 Moonlight, TM301 Marshmallow Crème, TM319 Elephant Ears, TM320 No way Rose', TM321 Dusty Sage, TM322 Taupe, TM323 Peacock, TM324 Cold Brew, TM325 Sangria, TM326 Sting Gray
Product Use / Restrictions: Kiln required, fire to cone 06 / no known restrictions.

2. HAZARDS IDENTIFICATION

Classification (GHS):	This product does not meet the criteria for classification.
Health & Physical Hazard Statement(s):	Not applicable.
Other Hazards not classified:	Not applicable.
Signal Word:	Not applicable.
Precautionary Statement(s):	Not applicable.
Pictogram(s) by GHS:	Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

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

Reportable ingredients (if applicable):

<u>Identity/Synonym</u>	<u>CAS Number:</u>	<u>Percentage/Range*:</u>
Kaolin (clay)	1332-58-7	Up to 10%
Silica (quartz)	14808-60-7	Up to 1.2%
Carboxymethylcellulose	9004-32-4	Up to 8%
Zinc Oxide	1314-13-2	Up to 4%
Cryolite	15096-52-3	Up to 4%
Bentonite	1302-78-9	Up to 2%
Calcium Oxide	1305-78-8	Less than 3%
Fumed Silica (Aquafil)	112945-52-5	Less than 3%

*The exact percentage (concentration) of composition is withheld as a trade secret.

4. FIRST AID MEASURES

On Inhalation:	Remove from exposure to fresh air.
On Skin Contact:	Wash skin with soap and water.
On Eye Contact:	Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
On Ingestion:	Do not induce vomiting and contact a physician.
Acute/Delayed Symptoms:	No additional relevant information available.



Safety Data Sheet

Medical Advice:	Treat symptomatically
Note to Physician:	No additional relevant information available.

5. FIRE FIGHTING MEASURES

Extinguishing Media	
Suitable extinguishing media:	Dry chemical, water.
Unsuitable extinguishing media:	No additional data available.
Protection of Firefighters	
Specific hazards arising from the chemical:	No known hazards.
Special procedures/equipment for firefighters:	Keep unnecessary personnel away. Fire fighters should wear positive pressure self-contained breathing apparatus. (SCBA)
Hazardous combustion Products:	None.

6. ACCIDENTAL RELEASE MEASURES

Emergency Containment procedures:	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Environmental Precautions, if any:	Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Do not allow product to enter sewer or waterways.
Methods for Cleaning Up:	Ensure adequate ventilation. Absorb spillage with suitable absorbent material. Dispose of contaminated material as waste according to Section 13.
Personal Protective Equipment:	Wear appropriate protective equipment and clothing during clean-up.

7. HANDLING AND STORAGE

Safe Storage:	Store in closed original container in a dry place. Store away from incompatible materials. Storage temperatures between 40° F and 100°F. Protect from freezing.
Safe Handling:	Use with adequate ventilation. Avoid skin and eye contact. Wash hands after use.
Known Incompatibilities:	No known incompatibilities.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Occupational Exposure Limits:

<u>Chemical name</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH REL</u>
Kaolin (clay)	-	TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp)	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
Silica (quartz)	0.05 mg/m3	Ca 0.05 mg/m3	0.025 mg/m3 (resp.) for α-quartz and cristobalite
Zinc Oxide	-	TWA 5 mg/m3 (fume) TWA 15 mg/m3 (total dust) TWA 5 mg/m3 (resp dust)	TWA 400 ppm (1400 mg/m3)
Calcium Oxide	calcium silicate - 2 mg/m3	2 mg/m3	2 mg/m3

Appropriate Engineering Controls: Individual Protection measures, such as PPE (Personal Protective Equipment): Ensure adequate ventilation, especially in confined areas.

Personal Protection Equipment:



Safety Data Sheet

Respiratory Protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respirator use (29 CFR 1910.134).
Eye Protection:	Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.
Hand Protection:	Gloves not normally required for foreseeable conditions of use.
Skin Protection:	Protective clothing is normally not necessary for foreseeable conditions of use.
General Safety and Hygiene Measures:	Local exhaust ventilation recommended when spraying. Good personal hygiene practices are always advisable, especially when working with chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:	Liquid
Color:	Varies
Odor:	Not available.
Odor Threshold:	Not available.
pH:	Not available.
Boiling Point/Range:	Not available.
Melting Point/Range:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Vapor Density:	Not available.
Solubility(ies):	Not available.
Vapor Pressure:	Not available.
Relative Density:	Not available.
Specific Gravity (Water=1):	Not available.
Viscosity:	Not available.
Partition Coefficient (n-octanol/water), if applicable:	Not available.
Explosive Properties:	Not available.
Flammability: (Solid, gas)	Not available.
Flammability Limit in Air: Upper/Lower	Not available.
Autoignition temperature:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Conditions to Avoid:	None.
Incompatible Materials:	Unknown.
Hazardous Decomposition Products:	Unknown.
Possibility of Hazardous Reactions/Polymerization:	None.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Eye Contact –Serious Eye Damage or Irritation	Not likely.
Skin Contact – Skin Corrosion, Sensitization or Irritation:	Will not cause irritation. Could potentially cause dry skin.



Safety Data Sheet

Ingestion – Carcinogenicity/Aspiration Hazard:	There is no toxicity data in this mixture.		
Inhalation – Respiratory Sensitization/Toxicity:	There is no toxicity data in this mixture.		
Symptoms of exposure:	No relevant data available.		
Information on toxicological effects:	No relevant data available.		
Delayed or Immediate effects:	No relevant data available.		
Germ Cell Mutagenicity:	No relevant data available.		
Specific target organ toxicity (single exposure):	No relevant data available.		
Specific target organ toxicity (repeated exposure):	No relevant data available.		
Chemicals listed on NTP, IARC or OSHA as a Carcinogen:	Ingredients are not known carcinogens.		
Chemical Name:	Oral LD50	Dermal LD50.	Inhalation LC50
Carboxymethylcellulose	16000mg/kg (16000mg/kg) guinea pig, 16000mg/kg (16000mg/kg) mouse, > 27gm/kg (27000mg/kg) rabbit, 27000mg/kg (27000mg/kg) rat	> 2gm/kg (2000mg/kg) rabbit	> 5800mg/m3/4H (5800mg/m3) rat
Zinc Oxide	7950mg/kg (7950mg/kg) mouse	-	2500mg/m3 (2500mg/m3) mouse
Cryolite	> 5gm/kg (5000mg/kg) rat	-	-
Bentonite	35mg/kg (35mg/kg) rat	-	-
Fumed Silica (Aquafil)	3160mg/kg (3160mg/kg) rat		

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

12. ECOLOGICAL INFORMATION (NON-MANDATORY)

Ecotoxicity:	No specific information available on mixture.
Persistence and degradability:	No specific information available on mixture.
Bioaccumulative potential:	Should not bioaccumulate and not likely to be significantly toxic to fish.
Mobility in soil:	Likely to have limited mobility in soil.
Other adverse effects:	No specific information available on mixture.

13. DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Disposal instructions:	Dispose of in accordance with applicable federal, state and local regulations, and based on material characteristics at time of disposal. Do not discharge into drains, water courses or onto the ground.
Local disposal regulations:	No additional relevant data is available.
EPA waste code(s):	No data.
Contaminated packaging:	No additional relevant data is available.

14. TRANSPORTATION INFORMATION (NON-MANDATORY)

	DOT	IMDG	IATA
UN/ID number:	Not regulated.	Not regulated.	Not regulated.



Safety Data Sheet

Proper shipping name:	-	-	-	-
Transport hazard class:	-	-	-	-
Packing group (if applicable):	-	-	-	-
Environmental Provisions:	-	-	-	-
Special Precautions in transport:	Not applicable.			
Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code	Not applicable.			
Emergency Response Guide Number: No data.	EmS-No:		No data.	

Pictograms		
<u>US:</u>	<u>IATA; IMDG:</u>	<u>Marine Pollutant:</u>
-	-	-

15. REGULATORY INFORMATION (NON-MANDATORY)

US Federal Regulations:					
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):		This product is manufactured in compliance with all provisions of the Toxic Substance Control Act, 15 U.S. C.2601 et. Seq.			
CERCLA (Superfund) reportable quantity (lbs.) (40 CFR 302.4)		No known reportable CERCLA chemicals.			
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):		OSHA Specifically Regulated Substances are listed in Section 8 of SDS, Occupational exposure limits.			
Section 302 (EHS) Extremely Hazardous Substance (40 CFR 355, Appendix A):		No known Section 302 EHS chemicals.			
Chemical Name:	CAS Number:	Reportable Quantity:	Threshold planning quantity:	Threshold planning quantity, lower value:	Threshold planning quantity, upper value:
None	X	X	X	X	X
Superfund Amendments and Reauthorization Act of 1986 (SARA)					
SARA/Title III:		This product does not contain any substances at or above the reported threshold under Section 313, based on available data. OR list substances with category code.			
SARA 304 Emergency release notification:		No chemicals subject to notification.			
SARA 311/312 (40 CFR 370) Hazardous Chemical:		No data.			
SARA 313 (TRI reporting):		<u>Chemical Name:</u> None	<u>CAS Number:</u> -	<u>% by wt.</u> -	
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15):		No data.			
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (Haps) List:		No known CAA Section 112 chemicals.			
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):		Not applicable.			
Safe Drinking Water Act (SDWA):		No data.			
Canadian Domestic Substances List (DSL):		No data.			
Toxicological Review:		Our products certified by a nationally recognized toxicologist to contain no materials in sufficient quantities to be toxic, cause injury, acute or chronic health problems to humans. Products are labeled in accordance with all applicable state and federal regulations including, but not limited to consumer product safety standards.			
California Proposition 65 Warning:		No special warning required under the provisions of California Proposition 65.			
EPA Clean Air / Water Act:		No data.			



Safety Data Sheet

EPA Hazardous Wastes:	No known EPA hazardous chemicals.
HMIS III Rating:	No data.
Unless a concentration is specified in Section 2 of the SDS, the above chemical(s) are present in trace amounts.	

16. OTHER INFORMATION

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/l:	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		

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.

Version:	Date:
1	Created: 1/7/2016
2	1/22/16 - JL
3	3/23/18 - sp
4	10/25/18
5	

END SAFETY DATA SHEET