



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: Duncan Renaissance Glazes
Product Description: Non-toxic, mid-fire ceramic glazes
Colors: RG732 Sand Storm, RG730 Weathered, RG729 River Rock, RG728 Lagoon, RG727 Midnight Sky, RG726, Bronzed Lilac, RG724 Buttermilk, RG723 Melted Caramel, RG722 Sea Glass, RG721 Opal Lustre, RG720 Burnt Jade, RG719 Rutile Haze, RG718 Mottled Teal, RG717 Indigo, RG716 Henna, RG715 Heirloom Blue, RG714 Pistachio Nut, RG713 Spiced Cream, RG712 Smoked Cinnamon, RG709 Sepia Brown, RG707 Deep Sea, RG706 Frosted Brick, RG705 Bronze Patina, RG704 Shino Cream, RG703 Rustic Mustard, RG702 Antique, RG701 Vintage Blue.
Product Use / Restrictions: Specially formulated for cone 5-6 firings. Ideal for stoneware, porcelain, greenware and bisque.

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	1332-58-7	7-10%
Silica	14808-60-7	2-4%

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

4. FIRST AID MEASURES

On Inhalation:	Move subject to fresh air. Consult physician if symptoms persist.
On Skin Contact:	Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.
On Eye Contact:	Flush eyes with plenty of water until irritation subsides. Consult a physician if irritation persists.
On Ingestion:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a physician.
Acute/Delayed Symptoms:	See section 11.
Medical Advice:	Treat symptomatically.
Note to Physician:	Product is non-toxic.



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5. FIRE FIGHTING MEASURES

Extinguishing Media	
Suitable extinguishing media:	CO ₂ , Dry chemical, Foam: Use extinguishing measures appropriate to the surrounding environment.
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:	No known.

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:	Avoid contact with eyes. Wash thoroughly after using.
Known Incompatibilities:	No additional relevant data available.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Occupational Exposure Limits: No exposure limits noted for ingredient(s).

<u>Chemical name</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH REL</u>
Kaolin	-	TWA 15 mg/m ³ (total) TWA 5 mg/m ³ (resp)	TWA 10 mg/m ³ (total) TWA 5 mg/m ³ (resp)
Silica	0.05 mg/m ³	Ca 0.05 mg/m ³	0.025 mg/m ³ (resp.) for α-quartz and cristobalite

Appropriate Engineering Controls: Individual Protection measures, such as PPE (Personal Protective Equipment): No special requirements under ordinary conditions of use and with adequate ventilation.

Personal Protection Equipment: Applies to normal work conditions, maintenance and repair.	
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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:	Liquid
Color:	Varies
Odor:	Odorless
Odor Threshold:	Not available.
pH:	7 - 10
Boiling Point/Range:	212°F
Melting Point/Range:	2200°F
Flash Point:	Not applicable.
Evaporation Rate:	1
Vapor Density:	Not available.
Solubility(ies):	Miscible
Vapor Pressure:	17.5 mm Hg @ 20°C (68°F)
Relative Density:	No data.
Specific Gravity (Water=1):	1.3 – 1.7
Viscosity:	Not available.
Partition Coefficient (n-octanol/water), if applicable:	No data.
Explosive Properties:	Not applicable.
Flammability: (Solid, gas)	Not applicable.
Flammability Limit in Air: Upper/Lower	No data.
Autoignition temperature:	Non-flammable.
Decomposition temperature:	No data.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of storage and use.
Conditions to Avoid:	None known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Avoid fumes when firing.
Possibility of Hazardous Reactions/Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Eye Contact –Serious Eye Damage or Irritation	Slight, transient.
Skin Contact – Skin Corrosion, Sensitization or Irritation:	No known signs or symptoms associated with exposure to product.
Ingestion – Carcinogenicity/Aspiration Hazard:	No known signs or symptoms associated with exposure to product.
Inhalation – Respiratory Sensitization/Toxicity:	No known signs or symptoms associated with exposure to product.
Symptoms of exposure:	No known signs or symptoms associated with exposure to product.
Information on toxicological effects:	No relevant data available.
Delayed or Immediate	No additional relevant data is available.



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effects:			
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:	This product is not considered to be a carcinogen by IARC, AVCGIH, NTP, or OSHA.		
Chemical Name:	Oral LD50	Dermal LD50.	Inhalation LC50
None	-	-	-

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

12. ECOLOGICAL INFORMATION (NON-MANDATORY)

Ecotoxicity:	No available data.
Persistence and degradability:	No data.
Bioaccumulative potential:	No data.
Mobility in soil:	No data.
Other adverse effects:	No data.

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.
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		
US:	IATA; IMDG:	Marine Pollutant:
-	-	-

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.



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CERCLA (Superfund) reportable quantity (lbs.) (40 CFR 302.4)		No known reportable CERCLA chemicals.			
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):		No known OSHA Specifically Regulated Substances in this formulation.			
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 available.			
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:		This product contains the following chemicals that are known to the State of California to cause cancer, birth defects, or other reproductive harm: None. OR No special warning required under the provisions of California Proposition 65.			
EPA Clean Air / Water Act:		No data.			
EPA Hazardous Wastes:		No known EPA hazardous chemicals. OR list chemicals and code.			
HMIS III Rating:		No data.			
Unless a concentration is specified in Section 2 of the SDS, the above chemicals(s) are present in trace amounts.					

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



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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/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		

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END SAFETY DATA SHEET