



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 Envision Series (all colors and clear glaze)
Product use/description: Ceramic glaze
Restrictions on use: None known

2. HAZARDS IDENTIFICATION

Classification:	This mixture does not meet the criteria for classification.
Hazard statement:	This mixture does not meet the criteria for classification.
Other hazards:	This mixture does not meet the criteria for classification.
Signal word:	None
Precautionary statement:	None
Pictogram(s) by GHS:	None

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): None. This product does not meet criteria for classification.

4. FIRST AID MEASURES

General advice:	First aid personnel must be aware of own risk during use.
On inhalation:	Seek fresh air. Get medical attention if symptoms persist.
On skin contact:	Wash area with soap and water. Get medical attention if irritation develops or persists.
On eye contact:	Flush eyes with water as a precaution. Get medical attention if irritation develops or persists.
On ingestion:	Drink 1 to 2 glasses of water. Get medical attention. Never give anything by mouth to an unconscious person.
Acute/delayed symptoms:	Direct contact with eyes may cause temporary irritation.
Medical advice:	Treat symptomatically.
Symptoms / effects:	May cause temporary eye irritation.
Special treatment needed:	None required.

5. FIREFIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protection equipment as recommended in Section 8 of this SDS.
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.
Emergency procedures:	Use personal protection recommended in Section 8 of this SDS.
Recommended personal protective equipment:	See Section 8 of this SDS.

7. HANDLING AND STORAGE

Safe storage:	Store in closed original container in a dry place. Store away from incompatible materials. Storage temperature: between 4°C and 38°C. Protect from freezing.
Safe handling:	Avoid breathing mist, vapors and spray.
Known incompatibilities:	Protect from freezing.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

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

Appropriate engineering controls: No special requirements under ordinary conditions of use and with adequate ventilation. Providing adequate ventilation minimizes the risk of inhalation of vapors and mists.

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:	None known.
General safety and hygiene measures:	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state/appearance:	Liquid
Color:	Various
Odor:	Odorless
Odor threshold:	N/A
pH:	7 – 10
Boiling point/range:	>100°C (>212°F)
Melting point/range:	1000°C (1832°F)
Flash point:	N/A
Evaporation rate:	1 (n-butyl acetate +1)
Vapor density:	N/A
Solubility(ies):	Miscible in water.
Vapor pressure:	17.55 mm Hg at 20°C
Relative density:	1.3 – 1.8
Viscosity:	N/A
Partition coefficient (n-octanol/water), if applicable:	No data available.
Explosive properties:	N/A
Flammability: (solid, gas)	N/A
Flammability limit in air: upper/lower	N/A
Autoignition temperature:	N/A
Decomposition temperature:	N/A

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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 irritation:	Prolonged contact may cause dryness of the skin.
Ingestion – carcinogenicity/aspiration hazard:	Under normal conditions of intended use, this material does not pose a risk to health.
Inhalation – respiratory sensitization/toxicity:	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Symptoms related to the physical chemical and toxicological characteristics:	Direct contact with eyes may cause temporary irritation.
Information on toxicological effects:	Occupational exposure to the substance or mixture may cause adverse effects.
Delayed or immediate effects:	None expected
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:	No data			
Chemical Name: None	Oral LD50 X	Dermal LD50 X	Inhalation LC50 X	Percentage X

*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:	None known.

13. DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Disposal instructions:	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristic at time of disposal. Do not discharge into drains, water courses or onto the ground.
Local disposal regulations:	Waste codes should be assigned by the user based on the application for which the product was used.
Hazardous waste code:	Determined by the local, current applicable laws and regulations.
Contaminated packaging:	Offer rinsed packaging material to local recycling facilities.
Waste residues:	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristic at time of disposal. Do not discharge into drains, water courses or onto the ground.

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:			
Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code			
Emergency Response Guide Number: No data		EmS-No: No data	

Pictograms

US: None	IATA; IMDG: None	Marine Pollutant: None
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15. REGULATORY INFORMATION (NON-MANDATORY)

U.S. Federal Regulations:

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):		Not regulated.			
CERCLA (Superfund) reportable quantity (lbs.) (40 CFR 302.4)		Not regulated.			
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):		Not regulated.			
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):		Not regulated.			
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 304 Emergency release notification:		Not regulated.			
SARA 311/312 (40 CFR 370) Hazardous Chemical:		Not regulated.			
SARA 313 (TRI reporting):		<u>Chemical Name:</u> None	<u>CAS Number:</u> X	<u>% by wt.</u> X	
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15):		Not regulated.			
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (Haps) List:		Not regulated.			
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):		Not regulated.			
Safe Drinking Water Act (SDWA):		Not regulated.			
Canadian Domestic Substances List (DSL):		Not regulated.			
State Regulations					
TSCA:		This product is manufactured in compliance 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.			
Conforms to Non-Toxic ASTM-4236:		Products are certified in a program of toxicological evaluation by a nationally 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 29 CFR Part 1910.1200(c).			
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.			
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.					

*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/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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