



# 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

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

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

## 5. FIREFIGHTING MEASURES

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

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Use personal protection equipment as recommended in Section 8 of this SDS.
<b>Environmental precautions:</b>	Avoid discharge into drains, water courses or onto the ground.
<b>Methods for cleaning up:</b>	Absorb spillage with suitable absorbent material. Collect and dispose of spillage as indicated in Section 13 of this SDS.
<b>Emergency procedures:</b>	Use personal protection recommended in Section 8 of this SDS.
<b>Recommended personal protective equipment:</b>	See Section 8 of this SDS.

## 7. HANDLING AND STORAGE

<b>Safe storage:</b>	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.
<b>Safe handling:</b>	Avoid breathing mist, vapors and spray.
<b>Known incompatibilities:</b>	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:	
<b>Respiratory protection:</b>	Wear respiratory protection during operations where spraying or misting occurs.
<b>Eye protection:</b>	Risk of splashes: Wear approved safety glasses or goggles.
<b>Hand protection:</b>	Chemical-resistant gloves are recommended.
<b>Skin protection:</b>	No special precautions.
<b>Thermal protection:</b>	None known.
<b>General safety and hygiene measures:</b>	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

<b>Eye Contact – serious eye damage or irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Skin Contact – skin corrosion, sensitization or irritation:</b>	Prolonged contact may cause dryness of the skin.
<b>Ingestion – carcinogenicity/aspiration hazard:</b>	Under normal conditions of intended use, this material does not pose a risk to health.
<b>Inhalation – respiratory sensitization/toxicity:</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Symptoms related to the physical chemical and toxicological characteristics:</b>	Direct contact with eyes may cause temporary irritation.
<b>Information on toxicological effects:</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Delayed or immediate effects:</b>	None expected
<b>Germ cell mutagenicity:</b>	No data

<b>Specific target organ toxicity (single exposure):</b>	No data			
<b>Specific target organ toxicity (repeated exposure):</b>	No data			
<b>Chemicals listed on NTP, IARC or OSHA as a Carcinogen:</b>	No data			
<b>Chemical Name:</b> None	<b>Oral LD50</b> X	<b>Dermal LD50</b> X	<b>Inhalation LC50</b> X	<b>Percentage</b> X

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

### 12. ECOLOGICAL INFORMATION (NON-MANDATORY)

<b>Ecotoxicity:</b>	Not expected to be harmful to aquatic organisms.
<b>Persistence and degradability:</b>	No data available.
<b>Bioaccumulative potential:</b>	No data available.
<b>Aquatic / terrestrial warnings:</b>	No data available.
<b>Mobility in soil:</b>	No data available.
<b>Other adverse effects:</b>	None known.

### 13. DISPOSAL CONSIDERATIONS (NON-MANDATORY)

<b>Disposal instructions:</b>	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.
<b>Local disposal regulations:</b>	Waste codes should be assigned by the user based on the application for which the product was used.
<b>Hazardous waste code:</b>	Determined by the local, current applicable laws and regulations.
<b>Contaminated packaging:</b>	Offer rinsed packaging material to local recycling facilities.
<b>Waste residues:</b>	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)

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

#### Pictograms

<b>US:</b> None	<b>IATA; IMDG:</b> None	<b>Marine Pollutant:</b> None
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### 15. REGULATORY INFORMATION (NON-MANDATORY)

#### U.S. Federal Regulations:

<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):</b>		Not regulated.			
<b>CERCLA (Superfund) reportable quantity (lbs.) (40 CFR 302.4)</b>		Not regulated.			
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):</b>		Not regulated.			
<b>Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):</b>		Not regulated.			
<b>Chemical Name:</b>	<b>CAS Number:</b>	<b>Reportable Quantity:</b>	<b>Threshold planning quantity:</b>	<b>Threshold planning quantity, lower value:</b>	<b>Threshold planning quantity, upper value:</b>
None	X	X	X	X	X
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>					
<b>SARA 304 Emergency release notification:</b>		Not regulated.			
<b>SARA 311/312 (40 CFR 370) Hazardous Chemical:</b>		Not regulated.			
<b>SARA 313 (TRI reporting):</b>		<u>Chemical Name:</u> None	<u>CAS Number:</u> X	<u>% by wt.</u> X	
<b>Drug Enforcement Administration (DEA) (21 CFR 1308.11-15):</b>		Not regulated.			
<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (Haps) List:</b>		Not regulated.			
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):</b>		Not regulated.			
<b>Safe Drinking Water Act (SDWA):</b>		Not regulated.			
<b>Canadian Domestic Substances List (DSL):</b>		Not regulated.			
<b>State Regulations</b>					
<b>TSCA:</b>		This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S. C. 2601 et. Seq.			
<b>FDA:</b>		21 CFR 175.105			
<b>SARA/Title III:</b>		This product does not contain any substances at or above the reported threshold under Section 313, based on available data.			
<b>Conforms to Non-Toxic ASTM-4236:</b>		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).			
<b>California Proposition 65 Warning:</b>		This product contains the following chemicals that are known to the state of California to cause cancer, birth defects, or other reproductive harm: none.			
<b>HMIS III Rating:</b>		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**

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

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