



# 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 SN 351 Satin Clear Glaze  
**Product Description:** Clear, translucent satin glaze  
**Item numbers:** 96996 (4 oz.), 97330 (16 oz./ 1 pint), 97345 (128 oz./1 gallon), 99338 (6400 oz./ 3.5 gallons)  
**Product Use / Restrictions:** For use with 04 bisque. No known restrictions.

## 2. HAZARDS IDENTIFICATION

<b>Classification (GHS):</b>	This product does not meet the criteria for classification.
<b>Health &amp; Physical Hazard Statement(s):</b>	Not applicable.
<b>Signal Word:</b>	Not applicable.
<b>Precautionary Statement(s):</b>	Not applicable.
<b>Pictogram(s) by GHS:</b>	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	0.07 ~ 4
Silica	14808-60-7	0.5 ~ 3
Titanium Dioxide	13463-67-7	0.5 ~ 1
Bentonite	1302-78-9	1 ~ 2
Carboxymethylcellulose sodium	9004-32-4	0.5 ~ 1.5
Sodium tetraborate pentahydrate	12179-04-3	0.5 ~ 1.5

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

## 4. FIRST AID MEASURES

<b>On Inhalation:</b>	Move subject to fresh air. Consult a physician if symptoms persist.
<b>On Skin Contact:</b>	Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.
<b>On Eye Contact:</b>	Flush eyes with large amounts of water until irritation subsides. Consult a physician if irritation persists.
<b>On Ingestion:</b>	Drink 1-2 glasses of water. Consult a physician. 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>Note to Physician:</b>	Product is non-toxic.

## 5. FIRE FIGHTING MEASURES

### Extinguishing Media



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<b>Suitable extinguishing media:</b>	CO <sub>2</sub> , Dry chemical, Foam – Use extinguishing media appropriate for surrounding fire.
<b>Unsuitable extinguishing media:</b>	None known.
<b>Protection of Firefighters</b>	
<b>Specific hazards arising from the chemical:</b>	Self-contained breathing apparatus and full-protective clothing should be worn when fighting chemical fires.
<b>Special procedures/equipment for firefighters:</b>	Selection of respiratory protection for firefighting: Follow the general fire precautions indicated in the workplace.
<b>Hazardous combustion Products:</b>	Will not occur.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental Precautions, if any:</b>	Avoid discharge into drains, water courses or onto the ground.
<b>Methods for Cleaning Up:</b>	Clean up spills with suitable, absorbent material and place in containers for disposal. Spill areas can be washed with water and collected for approved disposal.
<b>Personal Protective Equipment:</b>	Use personal protection equipment as recommended in 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 (39° F) and 38°C (100°F).
<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:

<u>Chemical name</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH REL</u>
<b>Kaolin</b>	Not established	TWA 15 mg/m <sup>3</sup> (total) TWA 5 mg/m <sup>3</sup> (resp)	TWA 10 mg/m <sup>3</sup> (total) TWA 5 mg/m <sup>3</sup> (resp)
<b>Silica</b>	0.05 mg/m <sup>3</sup>	Ca 0.05 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup> (resp.) for α-quartz and cristobalite
<b>Titanium dioxide</b>	10 mg/m <sup>3</sup> TWA; Appendix A4 - Not Classifiable as a Human Carcinogen	15 mg/m <sup>3</sup> TWA	5,000 mg/m <sup>3</sup>
<b>Sodium tetraborate pentahydrate</b>	TLV-TWA 2 mg/m <sup>3</sup> (inhalable particulate matter) TLV-STEL 6 mg/m <sup>3</sup> (inhalable particulate matter)	Not established.	Up to 1o-hr TWA REL TWA 1 mg/m <sup>3</sup>

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

<b>Personal Protection Equipment:</b>	
<b>Respiratory Protection:</b>	NIOSH approved respirator recommended if using a sprayer to avoid contact with sprays and mists.
<b>Eye Protection:</b>	Wear safety glasses with side shields; protect against splashing.
<b>Hand Protection:</b>	Gloves are not normally required for foreseeable conditions of use.
<b>Skin Protection:</b>	No special precautions.
<b>General Safety and Hygiene Measures:</b>	Good hygiene practices should be followed.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State/Appearance:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	None
<b>Odor Threshold:</b>	No data.
<b>pH:</b>	7-10
<b>Boiling Point/Range:</b>	212° F
<b>Melting Point/Range:</b>	1832°F (1000°C)
<b>Flash Point:</b>	Not applicable.
<b>Evaporation Rate:</b>	1
<b>Vapor Density:</b>	No data.
<b>Solubility(ies):</b>	Miscible
<b>Vapor Pressure:</b>	17.5 mm Hg @ 20°C (68°F)
<b>Bulk Density:</b>	10.8 – 12.5 lb. / gal
<b>Specific Gravity (Water=1):</b>	1.3 – 1.5
<b>Viscosity:</b>	No data.
<b>Partition Coefficient (n-octanol/water), if applicable:</b>	No data.
<b>Explosive Properties:</b>	Not applicable.
<b>Flammability: (Solid, gas)</b>	Not applicable.
<b>Flammability Limit in Air Upper/Lower</b>	Not applicable.
<b>Autoignition temperature:</b>	Non-flammable.
<b>Decomposition temperature:</b>	No data.

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions of use.
<b>Conditions to Avoid:</b>	No data.
<b>Incompatible Materials:</b>	No data.
<b>Hazardous Decomposition Products:</b>	Avoid fumes when firing.
<b>Possibility of Hazardous Reactions/Polymerization:</b>	Will not occur.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

<b>Eye Contact – Serious Eye Damage or Irritation</b>	Slight, transient.
<b>Skin Contact – Skin Corrosion, Sensitization or Irritation:</b>	No known signs or symptoms associated with product exposure.
<b>Ingestion – Carcinogenicity/Aspiration Hazard:</b>	No known signs or symptoms associated with product exposure.
<b>Inhalation – Respiratory Sensitization/Toxicity:</b>	No known signs or symptoms associated with product exposure.
<b>Symptoms of exposure:</b>	Can cause slight eye irritation.
<b>Information on toxicological effects:</b>	This product is considered non-hazardous and has no known toxicological effects.
<b>Delayed or Immediate effects:</b>	No data.

<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>	IARC: Titanium dioxide - 2B, volume 47,93 2010		
<b>Chemical Name:</b>	<b>Oral LD50</b>	<b>Dermal LD50.</b>	<b>Inhalation LC50</b>
<b>Bentonite</b>	35mg/kg (35mg/kg) rat	No data.	No data.
<b>Carboxymethylcellulose sodium</b>	6000mg/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

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

## 12. ECOLOGICAL INFORMATION (NON-MANDATORY)

<b>Ecotoxicity:</b>	No data.
<b>Persistence and degradability:</b>	No data.
<b>Bioaccumulative potential:</b>	No data.
<b>Mobility in soil:</b>	No data.
<b>Other adverse effects:</b>	No data.

## 13. DISPOSAL CONSIDERATIONS (NON-MANDATORY)

<b>Disposal instructions:</b>	Waste disposal should be in accordance with existing Federal, State and Local environmental regulations.
<b>Local disposal regulations:</b>	See above.
<b>EPA waste code(s):</b>	No data.
<b>Contaminated packaging:</b>	Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

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

### Pictograms

<b>US:</b>	<b>IATA; IMDG:</b>	<b>Marine Pollutant:</b>
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## 15. REGULATORY INFORMATION (NON-MANDATORY)

### US Federal Regulations:



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<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):</b>		This product is manufactured in compliance with all provisions of the Toxic Substance Control Act, 15 U.S. C.2601 et. Seq.			
<b>CERCLA (Superfund) reportable quantity (lbs.) (40 CFR 302.4)</b>		No known reportable CERCLA chemicals.			
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):</b>		OSHA Specifically Regulated Substances are listed in Section 8 of SDS, Occupational exposure limits.			
<b>Section 302 (EHS) Extremely Hazardous Substance (40 CFR 355, Appendix A):</b>		No known Section 302 EHS chemicals.			
<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/Title III:</b>		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.			
<b>SARA 304 Emergency release notification:</b>		No chemicals subject to notification.			
<b>SARA 311/312 (40 CFR 370) Hazardous Chemical:</b>		No data.			
<b>SARA 313 (TRI reporting):</b>		<u>Chemical Name:</u> None	<u>CAS Number:</u> -	<u>% by wt.</u> -	
<b>Drug Enforcement Administration (DEA) (21 CFR 1308.11-15):</b>		No data.			
<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (Haps) List:</b>		No known CAA Section 112 chemicals.			
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):</b>		Not applicable.			
<b>Safe Drinking Water Act (SDWA):</b>		No data.			
<b>Canadian Domestic Substances List (DSL):</b>		No data.			
<b>Toxicological Review:</b>		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.			
<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: <b>Titanium Dioxide – applies to airborne, unbound particles of respirable size.</b> Ingredient is bound in this product and non-respirable. <b><u>No special warning required under the provisions of California Proposition 65.</u></b>			
<b>EPA Clean Air / Water Act:</b>		No data.			
<b>EPA Hazardous Wastes:</b>		No known EPA hazardous chemicals			
<b>HMIS III Rating:</b>		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 do 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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**END SAFETY DATA SHEET**