

**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 Color Burst Crystal Chips  
**Product Description:** Color Burst chips, 2 oz.  
**Product number / Colors / Item number:** CR882 Red Eruption (34120), CR881 Purple Blaze (33563), CR880 Yellow Burst (33562), CR879 Green Thunder (33561), CR878 Orange Blast (33560), CR877 Blue Surge (33559), CR876 White Hot (33558), CR875 Pitch Black (33557)  
**Product Use / Restrictions:** For use on wet glaze or can be mixed with glazes for application.

**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>Other Hazards not classified:</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):

<b>Identity/Synonym</b>	<b>CAS Number:</b>	<b>Percentage/Range*:</b>
Kaolin	1332-58-7	0 – 6%
Tin Oxide	18282-10-5	0 – 5%
Silica	14808-60-7	0 – 2%

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

**4. FIRST AID MEASURES**

<b>On Inhalation:</b>	Remove from exposure to fresh air. If symptoms persist, consult a physician.
<b>On Skin Contact:</b>	Wash skin with soap and water. If symptoms persist, consult a physician.
<b>On Eye Contact:</b>	Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, consult a physician.
<b>On Ingestion:</b>	Do not induce vomiting and contact a physician.
<b>Acute/Delayed Symptoms:</b>	None known.
<b>Medical Advice:</b>	Treat symptomatically.
<b>Note to Physician:</b>	Product is not a hazardous mixture.

**5. FIRE FIGHTING MEASURES**

<b>Extinguishing Media</b>	
<b>Suitable extinguishing media:</b>	Dry chemical, water.
<b>Unsuitable extinguishing</b>	None known.



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<b>media:</b>	
<b>Protection of Firefighters</b>	
<b>Specific hazards arising from the chemical:</b>	None known.
<b>Special procedures/equipment for firefighters:</b>	Wear self-contained breathing apparatus, when needed.
<b>Hazardous combustion Products:</b>	None known.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Emergency Containment procedures:</b>	Ensure adequate ventilation; keep all unnecessary personnel away from the area.
<b>Environmental Precautions, if any:</b>	None known.
<b>Methods for Cleaning Up:</b>	Absorb with inert material (earth, vermiculite) and place in a suitable container for disposal.
<b>Personal Protective Equipment:</b>	See section 8 of this SDS.

## 7. HANDLING AND STORAGE

<b>Safe Storage:</b>	Store in a dry environment.
<b>Safe Handling:</b>	Use with adequate ventilation; avoid skin and eye contact. Wash hands after use. See section 8 of this SDS for personal protective equipment.
<b>Known Incompatibilities:</b>	None known.

## 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	-	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)
Tin Oxide	2 mg/m <sup>3</sup> TWA	15 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> TWA
Silica (quartz)	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

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

<b>Personal Protection Equipment:</b>	
<b>Respiratory Protection:</b>	No data.
<b>Eye Protection:</b>	Wear chemical safety goggles.
<b>Hand Protection:</b>	Wear protective chemical resistant gloves.
<b>Skin Protection:</b>	Wear appropriate protective clothing, if needed.
<b>General Safety and Hygiene Measures:</b>	Practice good general manufacturing practices and hygiene.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State/Appearance:</b>	Dry crystals, solid.
<b>Color:</b>	Varies
<b>Odor:</b>	Not available.
<b>Odor Threshold:</b>	Not available.
<b>pH:</b>	Not available.

<b>Boiling Point/Range:</b>	Not applicable.
<b>Melting Point/Range:</b>	Not available.
<b>Flash Point:</b>	Not applicable.
<b>Evaporation Rate:</b>	Not applicable.
<b>Vapor Density:</b>	Not applicable.
<b>Solubility(ies):</b>	Unknown.
<b>Vapor Pressure:</b>	Not applicable.
<b>Relative Density:</b>	Not available.
<b>Specific Gravity (Water=1):</b>	Not available.
<b>Viscosity:</b>	None
<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>	Not applicable.
<b>Decomposition temperature:</b>	No data.

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable
<b>Conditions to Avoid:</b>	None
<b>Incompatible Materials:</b>	Unknown
<b>Hazardous Decomposition Products:</b>	Unknown
<b>Possibility of Hazardous Reactions/Polymerization:</b>	No hazardous reactions.

**11. TOXICOLOGICAL INFORMATION**

<b>Information on likely routes of exposure:</b>	
<b>Eye Contact –Serious Eye Damage or Irritation</b>	No relevant data available.
<b>Skin Contact – Skin Corrosion, Sensitization or Irritation:</b>	No relevant data available.
<b>Ingestion – Carcinogenicity/Aspiration Hazard:</b>	No relevant data available.
<b>Inhalation – Respiratory Sensitization/Toxicity:</b>	No relevant data available.
<b>Symptoms of exposure:</b>	No relevant data available.
<b>Information on toxicological effects:</b>	There is no toxicity information available for this formula.
<b>Delayed or Immediate effects:</b>	No relevant data available.
<b>Germ Cell Mutagenicity:</b>	No relevant data available.
<b>Specific target organ toxicity (single exposure):</b>	No relevant data available.
<b>Specific target organ toxicity (repeated exposure):</b>	No relevant data available.
<b>Chemicals listed on NTP, IARC or OSHA as a Carcinogen:</b>	Respirable quartz (silica) is a potential carcinogen.



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<b>Chemical Name:</b>	<b>Oral LD50</b>	<b>Dermal LD50.</b>	<b>Inhalation LC50</b>
<b>Tin Oxide</b>	> 20gm/kg (20000mg/kg) mouse > 20gm/kg (20000mg/kg) rat	-	-

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

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

<b>Ecotoxicity:</b>	No specific available information on mixture. Not likely to be significantly toxic to fish.
<b>Persistence and degradability:</b>	No data.
<b>Bioaccumulative potential:</b>	Should not bioaccumulate.
<b>Mobility in soil:</b>	Likely to have no mobility in soil.
<b>Other adverse effects:</b>	No relevant data available.

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

<b>Disposal instructions:</b>	Dispose of according to local, state and all applicable federal regulations.
<b>Local disposal regulations:</b>	Dispose of according to local regulations.
<b>EPA waste code(s):</b>	No data.
<b>Contaminated packaging:</b>	No additional relevant data available.

### 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>	Not applicable.		
<b>Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code</b>	Not applicable.		
<b>Emergency Response Guide Number:</b>	No data.	<b>EmS-No:</b>	No data.

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

<b>US Federal Regulations:</b>					
<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.			
<b>SARA 304 Emergency release</b>		No chemicals subject to notification.			



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<b>notification:</b>			
<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>	No special warning required under the provisions of California Proposition 65.		
<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).**



**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		

Version:	Date:
1	Created: 11/4/2015 JC
2	4/30/2018 - sp
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**END SAFETY DATA SHEET**