



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 Bisq-Stain Opaque Acrylics,
OS series – all colors
Product Use/Description: Water-based, non-fired color for ceramics
Restrictions on use: None known.

2. HAZARDS IDENTIFICATION

Classification:	This substance does not meet the criteria for classification.
Hazard Statement:	None.
Other Hazards:	None.
Signal Word:	None.
Precautionary Statement:	None.
Pictogram(s) by GHS:	None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Detailed formulation is submitted by the client and it is proprietary information.

Products are made by physical manipulation and chemical reaction from the ingredients. The chemicals may not exist as the original formula in final products. **This product has been evaluated by a certified Toxicologist to be non-hazardous.**

Reportable ingredients (if applicable):

Chemical Name	CAS no.	*Weight - %
Limestone	1317-65-3	5 ~ 15
Propylene Glycol	57-55-6	1 ~ 3
Titanium Dioxide	13463-67-7	9.5 ~ 18.5
Attapulgate, activated	12174-11-7	0.5 ~ 2
Iron Oxide Red (CI 77491) - Ferric Oxide	1309-37-1	3 ~ 8
Carbon Black (CI 77266)	1333-86-4	1 ~ 5

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

4. FIRST AID MEASURES

General Advice:	Ensure that medical personnel are aware of the materials(s) involved.
On Inhalation:	Seek fresh air. Get medical attention if any discomfort continues.
On Skin Contact:	Wash area with soap and water. Get medical attention if irritation develops or persists.
On Eye Contact:	Flush eyes with water until irritation subsides.. Get medical attention if irritation persists.
On Ingestion:	Drink 1 or 2 glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.

Acute/Delayed Symptoms:	Direct contact with eyes may cause temporary irritation.
Medical Advice:	Treat symptomatically.
Symptoms /Effects:	Direct contact with eyes may cause temporary irritation.

5. FIRE FIGHTING MEASURES

Extinguishing Media	
Suitable extinguishing media:	Use fire extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Not available.
Protection of Firefighters	
Specific hazards arising from the chemical:	No data.
Protective equipment for firefighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special precautions for fire fighters:	Use standard firefighting procedures and consider the hazards of other involved materials.
Will hazardous combustion occur?:	Will not occur.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Ensure adequate ventilations.
Environmental Precautions:	Do not discharge into drains, water courses or onto the ground.
Methods for Cleaning Up:	Absorb spillage with suitable absorbent material. Flush area with water. Avoid discharge into drains, water courses or onto the ground.
Emergency Procedures:	Keep unnecessary personnel away.
Recommended Personal Protective Equipment:	See section 8 of this SDS.
Emergency Containment/Procedures:	Absorb spillage with suitable absorbent material. Flush area with water. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Safe Storage:	Store in closed original container in a dry place. Keep containers closed when not in use. Store away from incompatible materials. Storage temperature: Between 4°C/40°F and 37°C/100°F. Keep from freezing.
Safe Handling:	No specific usage precautions noted.
Known Incompatibilities:	None known.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	TLV (ACGIH)	PEL (OSHA)	REL (NIOSH)
Limestone	10 mg/m3 TWA	TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp)	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
Titanium Dioxide	10 mg/m3 TWA; Appendix A4 - Not Classifiable as a Human Carcinogen	15 mg/m3 TWA	5,000 mg/m3
Iron Oxide Red (CI 77491) - Ferric Oxide	5 mg/m3 (fume)	5 mg/m3 (dust and fume)	5 mg/m3 (resp.)
Carbon Black (CI 77266)	3.5 mg/m3	TWA 3.5 mg/m3	TWA 3.5 mg/m3 Ca TWA 0.1 mg

Appropriate Engineering Controls: No special requirements under ordinary conditions of use and with adequate ventilation.

Individual Protection measures, such as PPE (Personal Protective Equipment):

Personal Protection Equipment:	
Respiratory Protection:	Under normal conditions, respirator is not required. NIOSH approved respirator for sprays and mists recommended, if using a sprayer.
Eye Protection:	If risk of splashing, wear safety goggles or face shield.
Hand Protection:	No protection is ordinarily required under normal conditions of use.
Skin Protection:	No protection is ordinarily required under normal conditions of use.
Thermal Protection:	Wear appropriate thermal protective clothing, when necessary.
General Safety and Hygiene Measures:	Good hygiene practices should be followed.
Further Information:	Ventilation requirements: General; local exhaust ventilation recommended, if spraying.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Viscous Liquid.
Appearance:	Colored liquid.
Color:	Various
Odor:	Odorless.
Odor Threshold:	No data.
pH:	7.5 – 8.5
Boiling Point/Range:	100°C (212°F)
Melting Point/Range:	No data.
Flash Point:	N/A
Evaporation Rate:	1 (Water=1)
Vapor Density:	0.62
Solubilities:	Miscible in water.
Vapor Pressure:	17.5 mm Hg (20°C/68°F)
Relative Density:	1.26 – 1.44
Viscosity:	No data.
Partition Coefficient (n-octanol/water) if applicable:	N/A
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 temperature conditions.
Conditions to Avoid:	None known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide, various hydrocarbons.
Possibility of Hazardous Reactions:	Will not occur.
Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
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:	Health injuries are not known or expected under normal use.
Ingestion – Carcinogenicity/Aspiration Hazard:	Health injuries are not known or expected under normal use.
Inhalation – Respiratory Sensitization/Toxicity:	Health injuries are not known or expected under normal use.
Symptoms related to the physical chemical and toxicological characteristics:	None known.
Information on toxicological effects:	This product should be considered non-hazardous and has no known chronic effects.
Delayed or Immediate effects:	None known.
Germ Cell Mutagenicity:	None known.
Specific target organ toxicity (single exposure):	None known.
Specific target organ toxicity (repeated exposure):	None known.
Chemicals listed on NTP, IARC or OSHA as a Carcinogen?	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Chemical Name:	Oral LD50	Dermal LD50	Inhalation LC50
Propylene Glycol	22gm/kg (22000mg/kg) dog 18350mg/kg (18350mg/kg) guinea pig 22gm/kg (22000mg/kg) mouse	20800mg/kg (20800mg/kg) rabbit	No data
Carbon Black (CI 77266)	> 15400mg/kg (15400mg/kg) rat	> 3gm/kg (3000mg/kg) rabbit	No data

12. ECOLOGICAL INFORMATION (NON-MANDATORY)

Ecotoxicity:	This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability:	No data available.
Bioaccumulative potential:	No data available.
Aquatic / Terrestrial warnings:	None known.
Mobility in soil:	No data available.
Other adverse effects:	None known.

13. DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Disposal instructions:	
Local disposal regulations:	Dispose of in accordance with local regulations. Disposal recommendations are based on material as supplied. Disposal must be in accordance with applicable laws and regulations, and material characteristics at time of disposal.
Hazardous waste code:	The waste code should be assigned in discussion between the user, the producer and the local waste disposal company.
Contaminated packaging:	Since emptied containers retain product residue, follow label warning even after container is emptied.
Waste residues:	Dispose of in accordance with local regulations.

14. TRANSPORTATION INFORMATION (NON-MANDATORY)

	DOT	IMDG	IATA
UN/ID number:	Not regulated	Not regulated	Not regulated

Proper shipping name:	Paint or Stains, 14980 Sub. 2		
Transport hazard class:	Non-hazardous		
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:		EmS-No:	None

Pictograms

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

US Federal Regulations:		Not regulated.			
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.			
Hazard Categories: None					
Immediate Hazard:		N/A			
Delayed Hazard:		N/A			
Fire Hazard:		N/A			
Pressure Hazard:		N/A			
Reactivity Hazard:		N/A			
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>	<u>% by wt.</u>	
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):	No data.
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:	<p>This product contains the following chemicals that are known to the State of California to cause cancer, birth defects, or other reproductive harm: Titanium Dioxide*, Carbon Black*, Attapulgite, activated**</p> <p>*Applies to airborne, unbound particles of respirable size. **Applies to fibers (>5 mm in length)</p> <p>The chemicals listed above in the manufactured, finished product, are in a bound form, and are not expected to cause any chronic health effects.</p>

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 have been 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 sufficient 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