SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

BubbleART Series **BA5040, BA5043, BA5051, BA5052, BA5062, BA5064**

BA5002, BA5003, BA5005, BA5006, BA5017, BA5024, BA5031, BA5032, BA5037, BA5039

Product Use

Glass enamels / Colorant

Manufacturer's Name		Supplier's Name	
Colors for Earth, LLC			
Street Address		**Street Address**	
104 Finneyoaks Lane			
City	**Province**	**City**	**Province**
Weatherford	**TX**		
Postal Code	**Emergency Telephone**	**Postal Code**	**Emergency Telephone**
76085	817-366-8428		
Date SDS Prepared/Revised	**SDS Prepared By**		
3/30/2018	SDS Department		

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS (also see addendum)

Hazardous Ingredients *(specific)*	%	CAS Number	LD_{50} of Ingredient *(specify species and route*	LC_{50} of Ingredient *(specify species)*
Crystalline Silica*		14808-60-7		
Crystalline Silica only becomes a hazard when dispersed in the air or when this product is sprayed.				
Aluminum Hydrate**		21645-51-2		
Zircon*		7440-67-2		
Encap Cadmium**		72828-62-7		
Cobalt CO3*		513-79-1	(oral rat)640mg/kg	
Copper CO3*		12069-69-1	(oral rat)1350mg/kg	
Zinc Oxide*		1314-13-2		
RIO*		1332-37-2		
Salt Peter*		7631-99-4		
* The exact percentage of composition has been withheld as a trade secret. **These colors are inorganic products of fusion at high temperatures; as a result, the individual constituents are rendered essentially inert and do not exhibit the same chemical properties as if they existed ion the pure state.				

SECTION 3 — HAZARDS IDENTIFICATION

Several of the potential hazardous ingredients (listed in section 2) have been chemically reacted at high temperatures and are homogeneously and ionically interdiffused to form essentially insoluble pigment crystals with a crystalline matrix of spinel. This means they do not necessarily have any of the properties of its component oxides or metals.

Route of Entry: X Skin Contact ❒ Skin Absorption X Eye Contact X Inhalation X Ingestion

Potential Health Effects:
Long term inhalation of silica dust or mists, over an extended period of time may result in injury to the lungs or silicosis. Chronic exposure to cobalt compounds may affect kidneys, lungs or thyroid

SECTION 4 — FIRST AID MEASURES

Skin Contact:
Wash affected area with plenty of water and soap, for several minutes.

Eye Contact:
Immediate flush eyes for at least 15 min with running water. Hold eyelids apart to insure rinsing of the entire eye surface and lids with water. Get immediate attention if irritation develops.

Inhalation:
If inhaled, remove from the area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

Ingestion:
If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Seek medical attention

SECTION 5 — FIRE FIGHTING MEASURES

Flammable ❒ Yes **X** No	If yes, under which conditions?	
Means of Extinction: Water mist; CO_2, Dry Chemical, Foam		
Flashpoint (° C) and Method **Not Applicable**	**Upper** Flammable Limit (% by volume) **N/A**	Lower Flammable Limit (% by volume) N/A
Autoignition Temperature (°C) N/A	Explosion Data — Sensitivity to Impact N/A	Explosion Data — Sensitivity to Static Discharge N/A
Hazardous Combustion Products No polymerization but toxic fumes may be released when material is melted. Material is stable,		
[NFPA] Fire fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures

Uncontaminated material may be recovered and used, otherwise clean up with paper towels and dispose of in trash receptacle. Avoid generation of dust. Do not flush into surface water or sanitary sewer system.

SECTION 7 — HANDLING AND STORAGE

Handling Procedure

Avoid contact with eyes and clothing. Use adequate ventilation. Minimize dust generation during handling. If spraying, use NIOSH approved respirator for dust and mist is required. Practice good housekeeping.

Storage Requirements

Close lid tightly to prevent dust generation. Store in dry area.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits

❒ ACGIH TLV ❒ OSHA PEL ❒ Other *(specify)*

Specific Engineering Controls *(such as ventilation, enclosed process):* use in well ventilated areas.

Personal Protective Equipment Gloves X Respirator X Eye ❒ Footwear X Clothing ❒ Other

If checked, please specify type
Goggles; clothing to cover legs and arms. Use in well ventilated area

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Powder	Odor and Appearance Varied colors	Odor Threshold (ppm) none
Specific Gravity	Vapor Density (air = 1) 1	Vapor N/A Pressure (mmHg)
Evaporation Rate	Boiling Point (° C) Above 608F releases nitrogen oxides	Freezing Point (° C) N/A
pH	Coefficient of Water/Oil Distribution	[Solubility in Water] insoluble

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability X Yes ❒ No	If no, under which conditions?
Incompatibility with Other Substances X – Yes No	If yes, which ones? Acids, strong ammonium compounds, reducing agents

Reactivity, and under what conditions?
No reactivity

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure Skin irritation; respiratory irritation; eye irritation	
Effects of chronic exposure: Prolonged inhalation of silica dust or mists, over an extended period of time may result in injury to the lungs or silicosis. Chronic exposure to cobalt compounds may effect kidneys, lungs or thyroid.	
Irritancy of Product: Abrassive	
Skin sensitization	Respiratory sensitization
Carcinogenicity-IARC: Listed as suspected carcinogens	Carcinogenicity - ACGIH
Reproductive toxicity: unknown	Teratogenicity: unknown
Embryotoxicity: unknown	Mutagenicity: unknown
Name of synergistic products/effects	

SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity]:
Do Not disperse in ponds or bodies of water

13 — DISPOSAL CONSIDERATIONS

Waste Disposal:
Dispose in accordance with Federal, State and Local regulations

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information: Protect against physical damage	
	PIN
TDG : UN2570	[DOT] UN 2570/ regulated UN1500 – for pure NaNO3 compounds – these products may or may not have <5%
[IMO]	[ICAO]

SECTION 15 — REGULATORY INFORMATION

[WHMIS Classification] : D2B; D2A	[OSHA]:
[SERA]:	[TSCA]: Not subject to TSCA 12 (b)

SECTION 16 — OTHER INFORMATION

The information and recommendations contained in this SDS have been compiled from sources believed to be reliable and represent the most reasonable current opinion on the subject when this SDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of these products must decide what safety measures are necessary to safely use these products, either alone or in combination with other products, and determine the environmental regulatory compliance obligations under any applicable federal, state or local laws.

Addendum:

Other CAS numbers:

68187-15-5
1344-00-9
68187-12-2
66402-68-4
112945-52-5
68186-97-0

End of SDS