MATERIAL SAFETY DATA SHEET

Bonstone Materials Corporation

Date Issued: 02/08/2007
MSDS No: 39
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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: Touchstone Colorant, GRAY

MANUFACTURER

Bonstone Materials Corporation
707 Swan Drive
Mukwonago WI 53149
Emergency Contact: Mike Beckmann
Product Stewardship: 262-363-9877

24 HR. EMERGENCY TELEPHONE NUMBERS

Chemtrec: 1-800-424-9300

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: Can cause severe irritation, redness, tearing, blurred vision.

SKIN: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

INGESTION: Substance may be harmful if swallowed.

INHALATION: Prolonged inhalation may be harmful.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Cationic quaternary amine	Trade secret		
Titanium Dioxide	Trade secret	013463-67-7	236-675-5
Iron Oxide	Trade secret	001309-37-1	215-168-2
Aluminum Hydroxide	Trade secret	021645-51-2	- -
Silica, Amorphous	Trade secret	007631-86-9	231-545-4
Xylenes (o-,m-,p- Isomers)	< 3	001330-20-7	- -
Ethyl Benzene	< 3	000100-41-4	- -

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Get medical attention immediately.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: (302°F)

FLAMMABLE LIMITS: 0 to 0

GENERAL HAZARD: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

EXPLOSION HAZARDS: None known. Treat as combustible.

FIRE FIGHTING PROCEDURES: Use dry chemical, alcohol foam or CO2. Water or foam may cause frothing. Firefighters and others who may be exposed to products of combustion should wear full firefighting turnout gear and self-contained breathing apparatus. Firefighting equipment should be thoroughly decontaminated after use.

FIRE EXPLOSION: None known. Treat as combustible.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Stop the leak, if possible. Shut off or remove all ignition sources. Construct a dike to prevent spreading (includes molten liquids until they freeze).

RELEASE NOTES: Notify authorities if any exposures to the general public or environment occurs or is likely to occur.

SPECIAL PROTECTIVE EQUIPMENT: Remove contaminated clothing and wash before reuse.

COMMENTS: If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Place in metal containers for recovery or disposal. Flush area with water spray. Clean-up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Use with adequate ventilation.

HANDLING: Keep away from heat, sparks and flame.

STORAGE: Store in a tightly closed container.

COMMENTS: Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		**ppm**	**mg/m³**	**ppm**	**mg/m³**	**ppm**	**mg/m³**
Titanium Dioxide	**TWA**	NL [1]	10 [1]	NL	10	NL	NL
	STEL	NL	NL	NL	NL	NL	NL
Silica, Amorphous	**TWA**	NL	6 mg/m3	NL	10 mg/m3	NL	NL
	STEL	NL	NL	NL	6 mg/m3	NL	NL
Xylenes (o-,m-,p- Isomers)	**TWA**	100 ppm		100 ppm			
Footnotes: **1**. NL = Not Listed							

ENGINEERING CONTROLS: Use only in a well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.

RESPIRATORY: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

WORK HYGIENIC PRACTICES: Provide readily accessible eyewash stations and safety showers. Wash at the end of each work shift and before eating, smoking, or using the toilet.

OTHER USE PRECAUTIONS: Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

COMMENTS: Avoid breathing any (dust, vapor, mist, gas) that may be generated when grinding cured material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Freezing Point (°C)	Specific Gravity
Titanium Dioxide	1000	4
Iron Oxide	1000	4.75

PHYSICAL STATE: Liquid

APPEARANCE: Viscous liquid

COLOR: Gray

PERCENT VOLATILE: 0.3

VAPOR PRESSURE: 16.5

VAPOR DENSITY: 16.5

FLASHPOINT AND METHOD: (302°F)

SOLUBILITY IN WATER: Negligible

DENSITY: 15.5

SPECIFIC GRAVITY: 1.900

(VOC): ~ 0.030 lbs/gal

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: May occur.

CONDITIONS TO AVOID: Heat, fire, severe oxidizing conditions, and/or excessive moisture.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, aldehydes, carbon, and other toxic gases.

INCOMPATIBLE MATERIALS: Will react exothermally with isocyanates. Avoid oxidizing agents and strong alkalies.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD_{50} (rat)	INHALATION LC_{50} (rat)
Titanium Dioxide	> 7500 mg/kg (rat)	
Iron Oxide	> 5000 mg/l (rat)	
Xylenes (o-,m-,p- Isomers)	4300 mg/kg (rat)	5000 ppm (rat)

SKIN EFFECTS: May cause severe injury to skin following prolonged or repeated contact, and may cause skin sensitization or other allergic responses.

GENERAL COMMENTS: Not determined.

12. ECOLOGICAL INFORMATION

COMMENTS: No information.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Recover, reclaim or recycle when practical. Dispose of in accordance with federal, state and local regulations. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements be be more restrictive or otherwise different from federal laws and regulations.

14. TRANSPORT INFORMATION

COMMENTS: Not regulated by DOT

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Xylenes (o-,m-,p- Isomers)	< 3	001330-20-7
Ethyl Benzene	< 3	000100-41-4

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: This product and/or all of it's components is/are listed on the TSCA Inventory.

STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Titanium Dioxide	MA, NJ, PA, RI: TiO2 is on the Right-to-Know list for these states.
Iron Oxide	PA, NJ, MA: Iron (III) Oxide is on the Right-to-Know list for these states.
Silica, Amorphous	MA, NJ, PA: Amorphous SIlica is on the Right-to-Know list for these states.
Xylenes (o-,m-,p- Isomers)	CA, PA, NJ: Xylene is on the Right-to-know lists for these states.

CALIFORNIA PROPOSITION 65

Chemical Name	Wt.%	Listed
Cationic quaternary amine	Trade secret	• Cancer • Female Reproductive • Male Reproductive
Iron Oxide	Trade secret	• Cancer
Ethyl Benzene	< 3	• Cancer • Female Reproductive • Male Reproductive

16. OTHER INFORMATION

REASON FOR ISSUE: VOC content

APPROVED BY: Mike Beckmann **TITLE:** President

INFORMATION CONTACT: Mike Beckmann

REVISION SUMMARY: Revision #: 1 This MSDS replaces the February 08, 2007 MSDS. Any changes in information are as follows: In Section 1 Reason for Issue In Section 9 VOC (Unit) (VOC) (wt%) (Operator) VOC (From)

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