

SAFETY DATA SHEET

SilaCast BES

Version 1.0
Revision Date: 01/01/16

Date of last issue: 01/01/16
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SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: SilaCast BES
Product Code: DECOSILACAST7900
MSDS Manufacturer Number: DECOSILACAST7900
Manufacturer Name: DECO Products, Inc.
Address: 7900 E. 40th Avenue, Denver CO 80207
General Phone Number: 303-316-4820
General Fax Number: 303-316-9371

Recommended use of the chemical and restrictions on use

Recommended Use: Sealing New and Old Concrete

SECTION 2 – HAZARDOUS IDENTIFICATION

Classification

OSHA Regulatory Status: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Serious eye damage/eye irritation Category 2A

Label Elements

Emergency Overview

Warning

Hazard Statements: Causes serious eye irritation



Appearance: Milk white Opaque
Physical State: Liquid
Odor: Mild Vegetable Oil

Precautionary Statements – Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves / protective clothing / eye protection / face protection
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice / attention

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SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight - %	Trade Secret
Water	7732-18-5	48 - 50	
Surfactant	Proprietary	1 - 5	*
Polymer Solids	Proprietary	38 - 45	
Oxirane, Me, Polymer with oxirane monobutyl ether	9038-95-3	1 - 2	
Iron Complex dissolved in water	Proprietary	.5 – 1.5	

*The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity has been withheld as a trade secret.

SECTION 4 – FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for 15 to 20 minutes. Get medical attention, if irritation or symptoms of overexposure persists.
Skin Contact:	Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to refresh air.. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, do NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point:	No Data.
Lower Flammable/Explosive Limit:	Not applicable.
Upper Flammable/Explosive Limit:	Not applicable.
Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Ratings

NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Use proper personal protective equipment as listed in Section 8.
Environmental Precautions:	Avoid runoff into storm sewers, ditches and waterways.
Spill Cleanup Measures:	Absorb spill with inert material (i.e., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section.

SECTION 7 – HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION – EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection:	A NIOSH 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 other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

EXPOSURE GUIDELINES:

Titanium Dioxide:

Guideline ACGIH:	TLV-TWA: 10 mg/m ³
Guideline OSHA:	OSHA-TWA: 15 mg/m ³

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Ethylene Glycol:

Guideline ACGIH: TLV-STEL: C 100 mg/m³ (Aerosol only)

Silica, Amorphous, Precipitated and Gel:

Guideline ACGIH: TLV-TWA: 10 mg/m³

Guideline OSHA: OSHA-TWA: 20 mg/m³

SECTION 9 – PHYSICAL and CHEMICAL PROPERTIES

Appearance:	Milky White Opaque
Odor:	Mild Vegetable Oil
Odor Threshold:	Not available
Physical State:	Liquid
pH:	6.0 – 8.5
Flash Point:	Not Applicable
Auto-ignition Temperature	Not Applicable
Boiling point / boiling range:	>100 °C / 212 °F (Water)
Melting point / freezing point:	No information available
Flammability Limit in Air:	
Lower	Not available
Upper	Not Available
Specific Gravity:	1.016 – 1.040 @ 25 °C
Solubility:	Dispersible in water
Evaporation Rate:	< 1 (BuAc = 1)
Vapor Pressure:	17.5 mmHg @ 20 °C / 68 °F (Water)
Vapor Density:	> 1 (Air = 1)
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Percent Volatile, wt. %	49.5 – 50.5% by weight
VOC Content:	9 g/l (calculated) product as supplied
Viscosity	< 600 cps @ 25 °C
Partition Coefficient (in-octanol/water)	No information available
Decomposition temperature:	No information available

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SECTION 10 – STABILITY and REACTIVITY

Chemical Stability	Stable under normal temperatures and pressure
Hazardous Polymerization:	Not Reported.
Conditions to Avoid:	Heat, flames, incompatible materials, and freezing or temperatures below 32 deg. F.
Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 – TOXICOLOGICAL INFORMATION

<u>Titanium Dioxide</u>	XR2275000
Skin:	Administration onto skin – Human Standard Draize test: 300 ug/3D (Intermittent) (RTECS)
Ingestion:	Ingestion: Rat TDLo: 60 gm/kg; Gastrointestinal – Hypermotility, diarrhea Gastrointestinal – Other changes. (RTECS)
Carcinogenicity:	IARC: Group 2B: Possibly carcinogenic to humans.

Aluminum Hydroxide:

RTECS Number: BD0940000

Ethylene Glycol:

RTECS Number: KW2975000

Eye:	Eye – Rabbit TDLo: 10 pph [Sense Organs and Special Senses (Eye) – Conjunctive irritation] Eye – Rat Standard Draize test: 0.012%/3D Eye – Rabbit Standard Draize test: 500 mg/24H Eye – Rabbit Standard Draize test: 100 mg/1H Eye – Rabbit Standard Draize test: 0.012 ppm/3D Eye – Rabbit Standard Draize test: 1440 mg/6H (RTECS)
Skin:	Administration onto the skin – Rabbit LD50: 9530 uL/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin – Rabbit open irritation test: 555 mg (RTECS)
Ingestion:	Oral – Rat LD50: 4700 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral – Guinea Pig LD50: 6600 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral – LD50: 2000 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral – Mouse LD50: 5500 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral – LD50: 5500 mg/kg [Kidney/Ureter/Bladder – Other changes]

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Oral – LD50:1650 mg/ kg [Kidney/Ureter/Bladder – Other changes]

Oral – Guinea Pig LD50: 6610 mg/kg [Behavioral – Somnolence (general depressed activity) Gastrointestinal – Other changes Kidney/Ureter/Bladder – Other changes] (RTECS)

Silica, amorphous, precipitated and gel:

RTECS Number: VV315000

P(BA/MMA):

RTECS Number: UD3428000

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 – TRANSPORT INFORMATION

DOT UN Number: No Data

DOT Hazard Class: No Data

SECTION 15 – REGULATORY INFORMATION

California PROP 65: WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

2-ethylhexyl benzoate:

TSCA Inventory Status: Listed

Canada DSL: Listed

Titanium Dioxide:

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TSCA Inventory Status: Listed
State Regulations: Listed in the New Jersey State Right to Know List.
Listed in the Pennsylvania State Hazardous Substance List.

Canada DSL: Listed

Aluminum Hydroxide:

TSCA Inventory Status: Listed

Canada DSL: Listed

Ethylene Glycol:

TSCA Inventory Status: Not listed.

State Regulations: Listed in the New Jersey State Right to Know List.
Listed in the Pennsylvania State Hazardous Substance List.

Canada DSL: Listed

Silica, amorphous, precipitated and gel:

TSCA Inventory Status: Not listed

Canada DSL: Listed

P(BA/MMA):

TSCA Inventory Status: Listed

Canada DSL: Listed

SECTION 16 – ADDITIONAL INFORMATION

HMIS Health Hazard: 1
HMIS Fire Hazard: 1
HMIS Reactivity: 0
HMIS Other: X
MSDS Creation Date:
MSDS Revision Date:
MSDS Revision Notes: Quarterly formula update
MSDS Author: Actio Corporation

Disclaimer: This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.

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