

MATERIAL SAFETY DATA SHEET

Product Name: Epoxy Coating 4553
Product Class: Part A – Resin

Date: March 2005
Revision: Update

SECTION I – GENERAL INFORMATION

Manufacturer: Standard Cement Materials, Inc.
Address: 5710 West 34th Street, Suite A
Houston, TX 77092

Telephone Number: 713. 680-0482 1. 888. 278-1337
Emergency Telephone Number: 1. 281. 256-4954

Trade Name: Standard Epoxy Coating 4553 Resin
Solvent less Epoxy, Moisture Tolerant

Product Code: EC-7 Resin HMIS Codes: HFRP

SECTION II – HAZARDOUS INGREDIENTS

<u>COMPONENT</u>	<u>% BY WEIGHT</u>	<u>CAS NO.</u>	<u>VAPOR PRESSURE</u> <u>mm Hg @ TEMPERATURE</u>	
* 2-Ethyl Hexyls Glycidyl Ether	2.50	2461-15-6	4.0	70° F

* SARA Title III, Section 313 and 40 CFR 372 Reportable Components.
Although various ingredient of this product may not be classified by OSHA or ACGIH as hazardous, some users may develop skin or eye sensitivities to continued exposure to this product. Information is available by the manufacturer.

* Levels less than that recognized as hazardous by OSHA.

SECTION III – PHYSICAL DATA

COMPONENT A:

Appearance: Thick white paste in appearance with slight sweet odor.

Weight per Gallon	10.47 pounds
Boiling Point	+469° F
Melting Point	N/A
Evaporation Rate	Slower than ether
Vapor Density (mmHg)	Heavier than air (89°)
Material V.O.C.	N/A
Solubility in Water	Negligible
Specific Gravity (H ₂ O=1)	1.6

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

PROPERTY

Flash Point PMCC;	Component A: + 199° F
Method Used:	Closed cup
Flammable Limits in Air by Volume:	
Lower:	N/A
Upper:	N/A
Extinguishing Media:	CO ₂ Foam Dry Chemical
Special Firefighting Procedures:	Water spray may be ineffective on fire but can protect firefighters and to cool closed containers. Wear full firefighting gear, protective clothing and self-contained breathing apparatus (SCBA/ OSHA/ NIOSH) with full-face piece. Use full bunker gear, personnel protective clothing and equipment when entering confined fire space potential and to protect against exposure to vapors or combustion products exists. Avoid skin contact.
Unusual Fire Explosion Hazards:	Keep containers tightly closed. Product when heated produces vapors and decomposition products that may be released forming flammable explosive mixtures in air or give off toxic vapors in a fire. Heated closed containers may burst in extreme heat. Isolate containers from open flame, heat, spark, electrical equipment and oxidizers. Firefighters should wear butyl rubber boots, gloves, and body suit. Applying the material to hot surfaces requires special precautions. Store closed materials in dry storage with adequate ventilation. Empty containers are considered hazardous due to the residual fumes present.

SECTION V – REACTIVITY DATA

Stability	
Component A:	Stable
Conditions to Avoid:	Isolate from heat, open flame, sparks, electrical equipment, heat source and strong oxidizers.
Incompatible Materials:	Strong oxidants, permanganates and peroxides.
Hazardous Decomposition Products:	CO from burning.
Hazardous Polymerization:	Will not occur.

SECTION VI – HEALTH HAZARD DATA

Routes Of Entry:	Ingestion, skin absorption, inhalation.
Skin and Eye Contact:	Health risk. Prolonged skin exposure may cause eye and skin rash and irritation. May cause defatting and dermatitis.
Skin Absorption:	May cause dryness, dermatitis, irritation; absorption through the skin increase exposure and may be harmful.
Ingestion Health Risks:	Nausea, dizziness, abdominal irritation, vomiting and diarrhea.
Health Hazards (Acute):	Respiratory irritation, headaches, dermal irritation; may be fatal if swallowed.

Health Hazards (Chronic): Repeated exposure to vapor may be harmful. Absorption through the skin may be harmful. Vapor and liquid can cause eye irritation.

Carcinogenicity: NTP-No.
IARC Monographs-No.
OSHA Regulated-Yes.
Not established.
Prolonged exposure may increase cancer risk.

Medical Conditions: Generally aggravated by exposure. Persons with severe skin, liver or kidney problems should avoid use.

Exposure Standards: No standards established for this product.

EMERGENCY and FIRST AID

Flush eyes immediately with plenty of cool water for 15 minutes and consult a medical physician. For skin wash exposed area thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Consult a physician if irritation and discomfort develops or persists. Move an exposed person to fresh air immediately and provide oxygen if breathing is difficult or artificial respiration if necessary. Do not give water and induce vomiting if swallowed. Never give liquids or anything else to an unconscious or convulsing person. Obtain immediate medical attention.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING

Material Release/ Spills: Stop the spill to prevent spreading. Contain or absorb the spill with inert material and collect into a container for proper disposal. For large spills, dike the area with sand and sweep or pump the waste material into an approved DOT closed container. Remove the remaining material for proper disposal. Clean contaminated area with detergent and water.

Waste Disposal: Controlled incineration. Dispose of in accordance with Federal, state and local requirements.

Handling and Storage: Do not store or use near heat, sparks or open flame. Keep containers tightly closed and store in cool, dry place when not in use. Avoid repeated breathing of vapors, mists or fumes; and contact with eyes or skin. Open containers carefully.

Ventilation: Provide sufficient ventilation in pattern and volume. Keep the air contaminant concentration below applicable exposure limits. Remove heavy solvent vapors from the work area. Follow OSHA regulation 29 CFR Part 1910.94 guidelines. Remove airborne decomposition products during welding or flame cutting. **Caution:** *Solvent vapors are heavier than air and collect in lower levels of the work area.*

SECTION VIII – CONTROL MEASURES

Respiratory Protection: Provide adequate ventilation. Use full-face shield respirator mask when using this product. Use ventilation to maintain exposure level below TLV (PEL) use NIOSH approved positive-pressure self-contained breathing apparatus to comply with 29 CFR 1910.134.

Ventilation (Local Exhaust): No special ventilation. Local exhaust is necessary for use in enclosed or confined spaces. See OSHA Requirement/ NIOSH Publication 80-106.

Eye Protection: Safety glasses or face shield to comply with 29 CFR 1910.133 as dictated by work area conditions.

Other Protective Clothing:	Use appropriate clothing to prevent contact with skin.
Work/ Hygiene Practices:	Wash contaminated clothing before reuse. Discard contaminated footwear. Enforce careful handling to prevent the powder admixture from blowing. Wash thoroughly after use. An eye wash station or adequate supply of clean water must be available at the work area.

SECTION IX – TRANSPORTATION

DOT (Domestic Surface); Class 3	Amines. Corrosive liquid, hazardous transport labels or placards required.
DOT UN/ NA Number	UN 2079, Packing Group III.

The information contained herein is believed to be accurate and the best data available to us. Safety standards and government regulations are subject to change without notice and the conditions for handling and use, or misuse are beyond our control. Therefore, Standard Cement Materials Inc makes no warranty, either expressed or implied with the respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. User should satisfy himself that he has all current data relevant to his particular use.

MATERIAL SAFETY DATA SHEET

Product Name: Epoxy Coating 4553
Product Class: Part B – Catalyst

Date: March 2005
Revision: Update

SECTION I – GENERAL INFORMATION

Manufacturer: Standard Cement Materials, Inc.
Address: 5710 West 34th Street, Suite A
Houston, TX 77092

Telephone Number: 713. 680-0482 1. 888. 278-1337
Emergency Telephone Number: 1. 281. 256-4954

Trade Name: Standard Epoxy Coating 4553 Catalyst
Solvent less Epoxy, Moisture Tolerant

Product Code: EC-7 Catalyst HMIS Codes: HFRP

SECTION II – HAZARDOUS COMPONENTS

<u>COMPONENT</u>	<u>% BY WEIGHT</u>	<u>CAS NO.</u>	<u>VAPOR PRESSURE</u>		
			<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>mm/Hg @TEMP</u>
Benzyl Alcohols	20	100-51-6	NA	NA	NA
*Phenol	6	108-95-2	5 ppm	5 ppm	NA
*H-xylene Diamine	0.30	1477-55-0	NA	.1mg/m3	NA

* SARA Title III, Section 313 and 40 CFR 372 Reportable Components.

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* Levels less than that recognized as hazardous by OSHA.

SECTION III – PHYSICAL DATA

COMPONENT B:

Appearance: Thick black paste with pungent odor.

Weight per Gallon: 10.47 pounds

Boiling Point: +401° F

Melting Point: NIA NIA

Evaporation Rate: Slower that ether *

Material V.O.C.: NA

Solubility: Negligible

Vapor Density (mmHg): Heavier than air (89°) *

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

PROPERTY

Flash Point PMCC (°F); Components B: + 200° F.

Flammable Limits by Volume: NA for lower and upper.

Extinguishing Media: CO₂ Foam Dry Chemical Water Spray,

Special Firefighting Procedures: Water spray may be ineffective on fire but can protect firefighters and to cool closed containers. Wear full firefighting gear, protective clothing and self-contained breathing apparatus (SCBA/ OSHA/ NIOSH) with full-face piece. Use full bunker gear, personnel protective clothing and equipment when entering confined fire space potential and to protect against exposure to vapors or combustion products exists. Avoid skin contact.

Unusual Fire Explosion Hazards: Keep containers tightly closed. Product when heated produces vapors and decomposition products that may be released forming flammable explosive mixtures in air or give off toxic vapors in a fire. Heated closed containers may burst in extreme heat. Isolate containers from open flame, heat, spark, electrical equipment and oxidizers. Firefighters should wear butyl rubber boots, gloves, and body suit. Empty containers are considered hazardous due to the residual fumes present. Store closed materials in dry storage with adequate ventilation.

SECTION V – REACTIVITY DATA

Stability

Component B: Stable

Conditions To Avoid: Isolate from extreme heat, open flame, sparks, electrical equipment and strong oxidants.

Incompatible Materials: Isolate from strong oxidizers such as permanganates and peroxides.

Hazardous Decomposition Products: CO from burning.

SECTION VI – HEALTH HAZARD DATA

Routes Of Entry: Ingestion, skin absorption, inhalation.

Skin and Eye Contact: Health risk. Prolonged skin exposure may cause eye and skin rash and irritation. May cause defatting and dermatitis.

Skin Absorption: May cause dryness, dermatitis, irritation; absorption through the skin increase exposure and may be harmful.

Ingestion Health Risks: Nausea, dizziness, abdominal irritation, vomiting and diarrhea.

Health Hazards (Acute): Respiratory irritation, headaches, dermal irritation; may be fatal if swallowed.

Health Hazards (Chronic): Repeated exposure to vapor may be harmful. Absorption through the skin may be harmful. Vapor and liquid can cause eye irritation.

Carcinogenicity: NTP-No.
IARC Monographs-No.
OSHA Regulated-Yes.
Not established.

Medical Conditions:	Prolonged exposure may increase cancer risk. Generally aggravated by exposure. Persons with severe skin, liver or kidney problems should avoid use.
Exposure Standards:	No standards established for this product.

EMERGENCY and FIRST AID

Flush eyes immediately with plenty of cool water for 15 minutes and consult a medical physician. For skin wash exposed area thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Consult a physician if irritation and discomfort develops or persists. Move an exposed person to fresh air immediately and provide oxygen if breathing is difficult or artificial respiration if necessary. Do not give water and induce vomiting if swallowed. Never give liquids or anything else to an unconscious or convulsing person. Obtain immediate medical attention.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING

Material Release/ Spills:	Material Release/ Spills: Stop the spill to prevent spreading. Contain or absorb the spill with inert material and collect into a container for proper disposal. For large spills, dike the area with sand and sweep or pump the waste material into an approved DOT closed container. Remove the remaining material for proper disposal. Clean contaminated area with detergent and water.
Waste Disposal:	Controlled incineration. Dispose of in accordance with Federal, state and local requirements.
Handling and Storage:	Do not store or use near heat, sparks or open flame. Keep containers tightly closed and store in cool, dry place when not in use. Avoid repeated breathing of vapors, mists or fumes; and contact with eyes or skin. Open containers carefully.
Ventilation	Provide sufficient ventilation in pattern and volume. Keep the air contaminant concentration below applicable exposure limits. Remove heavy solvent vapors from the work area. Follow OSHA regulation 29 CFR Part 1910.94 guidelines. Remove airborne decomposition products during welding or flame cutting. Caution: <i>Solvent vapors are heavier than air and collect in lower levels of the work area.</i>

SECTION VIII – CONTROL MEASURES

Respiratory Protection:	Provide adequate ventilation. Use full-face shield respirator mask when using this product. Use ventilation to maintain exposure level below TLV (PEL) use NIOSH approved positive-pressure self-contained breathing apparatus to comply with 29 CFR 1910.134.
Ventilation (Local Exhaust):	No special ventilation. Local exhaust is necessary for use in enclosed or confined spaces. See OSHA Requirement/ NIOSH Publication 80-106.
Eye Protection:	Safety glasses or face shield to comply with 29 CFR 1910.133 as dictated by work area conditions.
Other Protective Clothing:	Use appropriate clothing to prevent contact with skin.
Work/ Hygiene Practices:	Wash contaminated clothing before reuse. Discard contaminated footwear. Enforce careful handling to prevent the powder admixture from blowing. Wash thoroughly after use. An eye wash station or adequate supply of clean water must be available at the work area.

SECTION IX – TRANSPORTATION

DOT (Domestic Surface); Class 3	Amines. Corrosive liquid, hazardous transport labels or placards required.
DOT UN/ NA Number	UN 2079, Packing Group III.

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