SAFETY DATA SHEET

Date Prepared : 10/01/2015
SDS No : SCC-210XHBA
Date Revised : 05/25/2017
Revision No : 1

210XHB SewerGard High Build, Part A, Hardener

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 210XHB SewerGard High Build, Part A, Hardener

MANUFACTURER

Sauereisen
160 Gamma Drive
Pittsburgh, PA 15238
Emergency Contact: John Kozak
Emergency Phone: (800)424-9300
Alternate Contact: Don Schubert
Customer Service: 412 963-0303
E-Mail: jakozak@sauereisen.com

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical):1-800-222-1222
CHEMTREC (US Transportation): 1-800-424-9300
CHEMTREC (Outside US):1-703-527-3887

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Irritation, Category 2
Acute Toxicity (Inhalation), Category 4
Acute Toxicity (Oral), Category 4
Eye Irritation, Category 2B
Respiratory Sensitization, Category 1B

Physical:

Flammable Liquids, Category 4

GHS LABEL


Exclamation mark


Health hazard

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H332: Harmful if inhaled.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H227: Combustible liquid.
H320: Causes eye irritation.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

PRECAUTIONARY STATEMENTS

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash ... thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.
P285: In case of inadequate ventilation wear respiratory protection.

Response:

P301+P312: IF SWALLOWED: Call a POISON CENTER/ doctor/...if you feel unwell.
P330: Rinse mouth.
P312: Call a POISON CENTER/doctor/...if you feel unwell.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
P370+P378: In case of fire: Use carbon dioxide, foam, dry chemicals, sand, earth or steam to extinguish.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:

P501: Dispose of contents/container to ...

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
4-nonylphenol, Branched	< 60	84852-15-3
1,3-bis(aminomethyl)benzene	< 40	1477-55-0
3-aminomethyl-3,5,5-trimethylcyclohexylamine	< 30	2855-13-2
Poly(oxy-1,2-ethanediyl), A-hydro-w-hydroxy-	< 10	25322-68-3
phenol, dinonyl-	< 0.5	1323-65-5
poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	< 5	9046-10-0
2,2'-iminodiethylamine	< 1	111-40-0
silica fume	< 3	69012-64-2

4. FIRST AID MEASURES

EYES: Check for and remove all contact lenses. Flush eyes immediately with water or physiological saline for at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

SKIN: Wash promptly with soap and water. If soaked through clothing, promptly remove clothing and wash skin. Launder clothing before reuse. Discard saturated shoes and leather clothing. For severe exposures, get under safety hower after removing clothing. Do not apply greases or ointments. Seek medical attention for incidents of significant exposure or if effects apparent.

INGESTION: Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side. Seek medical attention.

INHALATION: If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE EFFECTS: Will cause burns to skin and eyes. High concentration of vapors can cause severe irritation of eyes and respiratory tract. Liquid causes severe damage to mucous membranes if swallowed.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Carbon dioxide, foam, dry chemicals, sand, earth, and steam.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Avoid contact with material. Persons not wearing appropriate protective equipment should be excluded from the area of spill until clean-up is complete. Stop spill at source. Dike area to prevent spreading. Remaining product may be taken up by clay, diatomaceous earth or other absorbent and shoveled into disposal containers such as a dumpster or other common garbage receptacle. Residual material may be removed using steam or hot soapy water. Keep spark-producing equipment away from area. Observe environmental regulations and report spills as required to appropriate authorities.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Avoid contact with eyes, skin, and clothing.
For industrial use only!
Harmful if inhaled.
Do not take internally.
May cause irritation.
Do not eat, drink or smoke when using this product.
Wear chemical splash goggles, gloves and protective clothing.
Avoid high ambient temperatures and humidity.
Wash thoroughly after handling.

HANDLING: Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Do not create a dust cloud by using a brush or compressed air. Take precautionary measures against static discharge. All metal parts of the mixing and processing equipments must be grounded. Ensure all equipment is grounded before transfer operations.

STORAGE: Store in a cool dry, well ventilated place. Keep container closed when not in use. Store away from direct heat and flame. Remove all sources of ignition or sparks from area. Store out of direct sunlight. Do not store together with volatile chemicals as they may be absorbed onto product. Keep at ambient temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
	EXPOSURE LIMITS			
Chemical Name	**Type**		**ppm**	**mg/m³**
1,3-bis(aminomethyl)benzene	**OSHA PEL**	**TWA**		0.1
	ACGIH TLV	**TWA**		0.1
2,2'-iminodiethylamine	**ACGIH TLV**	**TWA**	1	4

ENGINEERING CONTROLS: Breathing vapors must be avoided. Ventilation must be sufficient to control vapors. This material should be confined as far as possible within sealed or covered equipment in which case normal ventilation should be adequate. Special (local) ventilation will be needed in areas where vapors are expected to be vented.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses with side shields, chemical resistant goggles, or face shield. Contact lenses should not be worn.

SKIN: Suitable protective gloves (neoprene, butyl rubber, or viton). Clothing should be clean, long-sleeved workclothes. Synthetic apron. Boots. Wash thoroughly before eating, smoking, applying cosmetics, etc. Thoroughly launder work clothes before reuse. Safety shower nearby.

RESPIRATORY: A suitable respirator complying with the most current NIOSH/ANSI/EN requirements should be used. In the U.S. use dust respirators in compliance with OSHA Standard 1910.134, and in the E.U. use dust respirators in compliance with EN149:2001FFP2 or FFP3 and rated for at least 10X WEL. . For emergency, a self-contained positive pressure,

breathing apparatus or full face respirator is recommeneded. If TLV of any component is exceeded, use appropriate respiratory protection or ventilate in accordance with OSHA regulation 29 CFR Part 1910.

COMMENTS:

Exposure Controls

Australia: 2mg/m3, Total Dust

Austria MAK: 4mg/m3, TWA, Inhalable Fraction

Finland: 5mg/m3

Germany TRGS 900: 4mg/m3, TWA, Inhalable Fraction

India: 10mg/m3, TWA

Ireland: 2.4mg/m3, TWA, Respirable Dust

Norway: 1.5mg/m3, TWA, Respirable Fraction

Switzerland: 4mg/m3, TWA

UK WEL: 6mg/m3, TWA, Total Inhalable Fraction 2.4mg/m3, TWA, Respirable Fraction

US OSHA PEL: 6mg/m3

US ACGIH-TLV: 10mg/m3, TWA, Inhalable 3mg/m3, TWA, Respirable

Belgium: 10mg/m3, TWA, Inhalable 3mg/m3, TWA, Respirable

China: 8mg/m3, TWA 10mg/m3, STEL

Italy: 10mg/m3, TWA, Inhalable 3mg/m3, TWA, Respirable

Malaysia: 10mg/m3, TWA, Inhalable 3mg/m3, TWA, Respirable

Spain: 10mg/m3, VLA, Inhalable 3mg/m3, VLA, Respirable

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Mild phenolic
ODOR THRESHOLD: Not Available
APPEARANCE: Viscous liquid
COLOR: White or translucent.
pH: Not Established
PERCENT VOLATILE: Not Established
VAPOR PRESSURE: Not Established
VAPOR DENSITY: NA = Not Applicable
BOILING POINT: (500°F)
MELTING POINT: Not Established
SOLUBILITY IN WATER: Soluble
SPECIFIC GRAVITY: 0.98

10. STABILITY AND REACTIVITY

REACTIVITY: Yes
HAZARDOUS POLYMERIZATION: No

STABILITY: Stable under normal conditions of use and storage.

CONDITIONS TO AVOID: Keep away from heat and sources of ignition. Avoid dust formation. Product resists ignition and does not promote flame spread.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition or burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, and / or ammonia.

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizers or epoxy resins under uncontrolled conditions.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD_{50}: ≥ 2000 mg/kg (rabbit)

ORAL LD_{50}: ≥ 5000 mg/kg (rat)

INHALATION LC_{50}: Due to the product's physical properties, no suitable testing procedure is available

SERIOUS EYE DAMAGE/IRRITATION: Draize score 0.7/110 @ 24 hr.

RESPIRATORY OR SKIN SENSITISATION: A delayed contact hypersensitivity study in guinea pigs utilizing the Magnusson and Klingman maximization technique was performed. No sensitization responses were observed.

GERM CELL MUTAGENICITY: Not mutagenic in AMES test, unscheduled DNA synthesis, chromosomal aberration in Chinese hamster ovary (CHO) cells.

CARCINOGENICITY

NOTES: Does not contain any substances greater than 0.1% listed by IARC (Internationa Agency for Research on Cancer), NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), ACGIH (American Conference for Governmental Industrial Hygienists) or EU (European Union)

12. ECOLOGICAL INFORMATION

BIOACCUMULATION/ACCUMULATION: According to experience not expected.

DISTRIBUTION: Not determined.

AQUATIC TOXICITY (ACUTE)

96-HOUR LC_{50}: > 10000 mg/L Brachydanio rerio (Method: OECD 203)

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Material should be disposed of as hazardous waste in accordance with Federal, state and local environmental regulations. Dispose of containers with any amount of liquid material as hazardous waste.
Dilution followed by inceneration is the preferred disposal method. Dilute 10:1 with a clean compatible and combustible solvent, e.g. #2 fuel oil or mineral oil, to reduce reactivity hazards during incineration, handling and transportation.

PRODUCT DISPOSAL: Unused and uncontaminated product can be burned in suitable incineration plants or disposed of in a suitable landfill in accordance with the regulations issued by the appropriate federal, provincial, state, and local authorities.

EMPTY CONTAINER: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Amines, Liquid, N.O.S. (Nonyl Phenol branched, 1'3-benzenedimethaneamine)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN2735

PACKING GROUP: II

LABEL: Corrosive

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

Corrosive

R20/22: Harmful by inhalation and if swallowed.
R34: Causes burns.
R42/43: May cause sensitization by inhalation and skin contact.
S23: Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute. Chronic.

313 REPORTABLE INGREDIENTS: Phenol * 108-95-2 * 20% Max weight.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: No data available. Contact Env. Dept.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
4-nonylphenol, Branched	84852-15-3
1,3-bis(aminomethyl)benzene	1477-55-0
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2
Poly(oxy-1,2-ethanediyl), A-hydro-w-hydroxy-	25322-68-3
phenol, dinonyl-	1323-65-5
poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	9046-10-0
2,2'-iminodiethylamine	111-40-0
silica fume	69012-64-2

TSCA STATUS: Components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CALIFORNIA PROPOSITION 65: Known to the State of California to cause cancer and reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Act of 1986".

It has not been determined and cannot be ascertained that this product would not expose users to the listed chemicals at the very low level prescribed in the regulations. Therefore, it is the user's responsibility to determine if the percent of the hazardous / carcinogenic ingredients listed elsewhere in the SDS comply with State of California regulations.

CLEAN WATER ACT: This product does not contain any listed Priority Pollutants.

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION


Toxic


Corrosive

R20/22: Harmful by inhalation and if swallowed.
R34: Causes burns.
R42/43: May cause sensitization by inhalation and skin contact.
S23: Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WHMIS CLASS: Class D, Division 2, Subdivision B: Materials cause other toxic effects, toxic material.

DOMESTIC SUBSTANCE LIST (INVENTORY): Components included on inventory

16. OTHER INFORMATION

PREPARED BY: John A Kozak **Date Revised:** 05/25/2017

REVISION SUMMARY: This SDS replaces the 05/18/2017 SDS. Revised: **Section 1:** SDS No.

HMIS RATING

HEALTH	3
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	H

SAFETY DATA SHEET

Date Prepared : 10/01/2015
SDS No : SCC-210XHBB
Date Revised : 05/25/2017
Revision No : 2

210XHB SewerGard High Build, Part B, Resin

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 210XHB SewerGard High Build, Part B, Resin

MANUFACTURER

Sauereisen
160 Gamma Drive
Pittsburgh, PA 15238
Emergency Contact: John Kozak
Emergency Phone: (800)424-9300
Alternate Contact: Don Schubert
Customer Service: 412 963-0303
E-Mail: jakozak@sauereisen.com

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical):1-800-222-1222
CHEMTREC (US Transportation): 1-800-424-9300
CHEMTREC (Outside US):1-703-527-3887

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Eye Irritation, Category 2B
Skin Irritation, Category 2
Respiratory Tract Irritation, Category 3
Carcinogenicity, Category 2

GHS LABEL

Exclamation mark

Health hazard

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H315: Causes skin irritation.
H320: Causes eye irritation.
H333: May be harmful if inhaled.
H351: Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

PRECAUTIONARY STATEMENTS

Prevention:

P202: Do not handle until all safety precautions have been read and understood.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash ... thoroughly after handling.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.

Response:

P308+P313: IF exposed or concerned: Get medical advice/ attention.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P302+P352: IF ON SKIN: Wash with plenty of water/...
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER/doctor/...if you feel unwell.

Storage:

P405: Store locked up.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501: Dispose of contents/container to ...

POTENTIAL HEALTH EFFECTS

EYES: Contact causes eye irritation.

SKIN: Moderate irritation and dryness. Prolonged or repeated exposure may result in sensitization.

INHALATION: Headache, nausea, and irritation to the nose and throat. Prolonged or repeated exposure may cause asthma.

CARCINOGENICITY: Crystalline Silica inhaled from occupational sources is classified as carcinogenic to humans.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
neodecanoic acid, 2-oxiranylmethyl ester	< 25	26761-45-5
Titanium Dioxide	< 10	13463-67-7
Silica, Crystalline	< 10	14808-60-7

4. FIRST AID MEASURES

EYES: Check for and remove all contact lenses. Flush eyes immediately with water or physiological saline for at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

SKIN: Wash promptly with soap and water. If soaked through clothing, promptly remove clothing and wash skin. Launder clothing before reuse. Discard saturated shoes and leather clothing. For severe exposures, get under safety hower after removing clothing. Do not apply greases or ointments. Seek medical attention for incidents of significant exposure or if effects apparent.

INGESTION: Do not induce vomiting - in general, no treatment is necessary unless large quantities of product are ingested, however, seek medical attention.

INHALATION: If difficulty breathing, move to fresh at air once. Apply artificial respiration if breathing has stopped. Seek medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Can cause redness, tearing, Irritation, inflammation and corneal opacity.

SKIN: Moderate irritation and dryness. Prolonged or repeated exposure may result in sensitization.

INHALATION: Headache, nausea, and irritation to nose and throat. Prolonged or repeated exposure may cause asthma.

CHRONIC EFFECTS: The adverse health effects-- silicosis, lung cancer, autoimmune and chronic kidney diseases, tuberculosis and non-malignant respiratory diseases-- are chronic effects.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water fog, foam, carbon dioxide, and dry chemicals.

HAZARDOUS COMBUSTION PRODUCTS: Combustion products may be toxic.

FIRE FIGHTING PROCEDURES: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

SENSITIVE TO STATIC DISCHARGE: None

SENSITIVITY TO IMPACT: None

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Avoid contact with material. Persons not wearing appropriate protective equipment should be excluded from the area of spill until clean-up is complete. Stop spill at source. Dike area to prevent spreading. Remaining product may be taken up by clay, diatomaceous earth or other absorbent and shoveled into disposal containers such as a dumpster or other common garbage receptacle. Residual material may be removed using steam or hot soapy water. Keep spark-producing equipment away from area. Observe environmental regulations and report spills as required to appropriate authorities.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Avoid contact with eyes, skin, and clothing.
For industrial use only!
Harmful if inhaled.
Do not take internally.
May cause irritation.
Do not eat, drink or smoke when using this product.
Wear chemical splash goggles, gloves and protective clothing.
Avoid high ambient temperatures and humidity.
Wash thoroughly after handling.

HANDLING: Do not breathe dust. Keep airborne dust concentrations below permissible exposure limit (PEL). Do not rely on sight to determine if dust is in the air. Respirable crystalline silica dust may be in the air without a visible dust cloud. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean and fit tested respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing that has become dusty.

STORAGE: Store in a cool, dry place.
Keep container closed when not in use.
Store away from direct heat and flame.
Keep away from food and drinking water.
Store out of direct sunlight.
DO NOT SMOKE where product is used or stored.
Store in a well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
	EXPOSURE LIMITS			
Chemical Name	**Type**		**ppm**	**mg/m³**
Titanium Dioxide	**OSHA PEL**	**TWA**		15
	ACGIH TLV	**TWA**		10
	Supplier OEL	**TWA**	NL	NL
		STEL	NL	NL
Silica, Crystalline	**OSHA PEL**	**TWA**		5
		STEL	0.05	
	ACGIH TLV	**TWA**		0.025
	Supplier OEL	**TWA**	NL	NL
		STEL	NL	NL

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Rubber framed or cup type goggles.

SKIN: Suitable protective gloves (neoprene, butyl rubber, or viton). Clothing should be clean, long-sleeved workclothes. Synthetic apron. Boots. Wash thoroughly before eating, smoking, applying cosmetics, etc. Thoroughly launder work clothes before reuse. Safety shower nearby.

RESPIRATORY: A suitable respirator complying with the most current NIOSH/ANSI/EN requirements should be used. In the U.S. use dust respirators in compliance with OSHA Standard 1910.134, and in the E.U. use dust respirators in compliance with EN149:2001FFP2 or FFP3 and rated for at least 10X WEL. . For emergency, a self-contained positive pressure, breathing apparatus or full face respirator is recommeneded. If TLV of any component is exceeded, use appropriate respiratory protection or ventilate in accordance with OSHA regulation 29 CFR Part 1910.

WORK HYGIENIC PRACTICES: Wash contact area thoroughly with soap and water. Remove contaminated clothing. Launder before reuse. Seek medical atttention if erythema develops.

OTHER USE PRECAUTIONS: ***This product contains encapsulated silica. By OSHA letter of interpretation, the silica is not considered respirable in either the cement paste form or cured cement form. However, if the cured cement is polished, ground or chipped during processing, handling or use, the silica maybe released as an airborne respirable particle. In these instances appropriate personal protection equipment and local ventilation controls must be employed.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Mild

ODOR THRESHOLD: Not Available

APPEARANCE: Viscous liquid

COLOR: Various

pH: Not Established

FLASH POINT AND METHOD: 146°C (295°F)

FLAMMABLE LIMITS: 0 to 0

VAPOR PRESSURE: 2.5 mm Hg at (107°F)

VAPOR DENSITY: Not Established

MELTING POINT: Not Established

SOLUBILITY IN WATER: Moderate

EVAPORATION RATE: Not Established

SPECIFIC GRAVITY: 1.25

10. STABILITY AND REACTIVITY

REACTIVITY: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable under normal conditions of use and storage.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, aldehydes, ketones, acids and various complex hydrocarbons may be formed during combustion.

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidants, strong Lewis acids, strong mineral acids and organic bases.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD_{50}: No data is available on the product itself.

Notes: Components:
Glycidylneodeconoate LD50 (Rat): 3.8 g/kg
Epoxy LD50 (Rabbit): 20 ml/kg

ORAL LD_{50}: No data is available on the product itself.

Notes: Components:
Glycidylneodeconoate LD50 (Rat): 9.6 g/kg
Epoxy LD50 (Rat): 11.4 g/kg

INHALATION LC_{50}: rat, no death in saturated air for 8 hours.

SERIOUS EYE DAMAGE/IRRITATION: Eye, Skin and Inhallation Irritant.

GERM CELL MUTAGENICITY: Not Available

CARCINOGENICITY

IARC: Silica is listed as having sufficient evidence to be a carcinogen in humans and in experimental animals, for the carcinogenicity of quartz and cristobalite. The overall IARC evaluation was that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (group 1).

NTP: The National Toxicology Program, in it's Ninth Annual report on Carcinogens, classified "silica, crystaline (respirable)" as a known human carcinogen.

OSHA: Crystalline Silica (Quartz) is not regulated by the US Occupational Safety and Health Administration as a carcinogen.

NOTES:

Silica is listed by IARC and NTP as having sufficient evidence to be a carcinogen in humans and in experimental animals for the carcinogenicity of quartz and cristobalite. The overall IARC evaluation was that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (group 1).

REPRODUCTIVE TOXICITY: Not Available

STOT-SINGLE EXPOSURE:

·Nephrotoxicity - Recent studies suggest that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of kidney disorders.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available. Contact Env. Dept.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Non-hazardous. Material should be disposed of in approved landfill according to federal, state , and local regulations.

EMPTY CONTAINER: Disposal must be made according to official regulations.

RCRA/EPA WASTE INFORMATION: Crystalline silica (quartz) is not classified as a hazardous watse under the Resource Conservation and Recovery Act, or its regulations, 40 CFR 261 et seq.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Paint & related material, compounds.

PRIMARY HAZARD CLASS/DIVISION: Not Regulated

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

R36/37/38: Irritating to eyes, respiratory system and skin.
R40: Limited evidence of a carcinogenic effect.
R48/20: Harmful : danger of serious damage to health by prolonged exposure through inhalation.
S22: Do not breathe dust.
S24/25: Avoid contact with skin and eyes.
S36/37: Wear suitable protective clothing and gloves.
S7: Keep container tightly closed.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Irritant.

313 REPORTABLE INGREDIENTS: There are no listed chemicals above detection limits in this compound.

TITLE III NOTES: None above detection limits.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Crystalline silica (Quartz) is not classified as a hazardous substance under regulations of the ComprehensiveEnvironmental Response Compensationa dn liability Acts (CERCLA), 40 CFR 302

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
neodecanoic acid, 2-oxiranylmethyl ester	26761-45-5
Titanium Dioxide	13463-67-7
Silica, Crystalline	14808-60-7

TSCA STATUS: Components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

REGULATIONS

STATE REGULATIONS:

Massachusetts Toxic Use Reduction Act- Silica, Crystalline (respirable size, <10microns) is toxic for purposes of the Massachusetts Toxic Use Reduction Act

Pennsylvania Worker and Community Right to Know Act- Quartz is a hazardous substance under the act, but it is not a special hazardous substance or an environmental hazardous substance.

California Inhalation Reference Exposure Level (REL)- California established a chronic REL of 3 ug for silica crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health ffects are anticipated in individuals indefinitely exposed to the substance at that level.

CALIFORNIA PROPOSITION 65: Known to the State of California to cause cancer and reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Act of 1986".

It has not been determined and cannot be ascertained that this product would not expose users to the listed chemicals at the very low level prescribed in the regulations. Therefore, it is the user's responsibility to determine if the percent of the

hazardous / carcinogenic ingredients listed elsewhere in the SDS comply with State of California regulations.

RCRA STATUS: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40CFR 261 et seq.

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION

Toxic

R36/37/38: Irritating to eyes, respiratory system and skin.
R40: Limited evidence of a carcinogenic effect.
R48/20: Harmful : danger of serious damage to health by prolonged exposure through inhalation.
S22: Do not breathe dust.
S24/25: Avoid contact with skin and eyes.
S36/37: Wear suitable protective clothing and gloves.
S7: Keep container tightly closed.

WHMIS CLASS: Class D, Division 2, Subdivision B: Materials cause other toxic effects, toxic material.

DOMESTIC SUBSTANCE LIST (INVENTORY): Components included on inventory

16. OTHER INFORMATION

PREPARED BY: John A Kozak **Date Revised:** 05/25/2017

REVISION SUMMARY: This SDS replaces the 05/18/2017 SDS. Revised: **Section 1:** SDS No.

HMIS RATING

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	G