

Printing date 07/08/2014

Version 2

Reviewed on 07/08/2014

1 Identification of the substance/mixture and of the company/undertaking

Product identifier Powercrete R 95 Part A

### Trade name: Powercrete R 95 Part A

Relevant identified uses of the substance or mixture and uses advised against Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) **Application of the substance** / **the mixture** Epoxy resin

### Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Seal For Life Industries LLC - Powercrete

103 J.L. Farmer Road, Franklin, KY 42134, USA

Tel. (+1) 508-918-1600, Fax. (+1) 508-918-1910, Email: franklin@sealforlife.com

Information department: Product safety department of manufacturer / supplier

### Emergency telephone number:

For emergency assistance call CHEMTREC (24 hours): Within USA/Canada 1-800-424-9300; Outside USA/Canada +1 703-527-3887 (collect calls accepted)

### 2 Hazard(s) identification

### Classification of the substance or mixture



GHS08 Health hazard

Carc. 2

H351 Suspected of causing cancer.



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

GHS07

Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.Skin Sens. 1H317May cause an allergic skin reaction.

### Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



Signal word Warning

Hazard-determining components of labeling: Bisphenol F, reaction product with epichlorohydrin titanium dioxide Hazard statements Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

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Suspected of causing cancer. Toxic to aquatic life with long lasting effects. **Precautionary statements** If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Avoid breathing dust/fume/gas/mist/vapours/spray. 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. Specific treatment (see on this label). Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. **Classification system:** 

### NFPA ratings (scale 0 - 4)

Health = 1 Fire = 10 Reactivity = 0

### HMIS-ratings (scale 0 - 4)

HEALTH 1 Health = 1FIRE Fire = 1 1 Reactivity = 0 REACTIVITY 0

### Other hazards

Results of PBT and vPvB assessment

**PBT:** Not available.

vPvB: Not available.

### 3 Composition/information on ingredients

### **Chemical characterization: Mixtures**

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:			
28064-14-4	28064-14-4 Bisphenol F, reaction product with epichlorohydrin		
	Aquatic Chronic 2, H411; () Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; H401		
12001-26-2	Mica	5.0-10%	
471-34-1	calcium carbonate	5.0-10%	
7727-43-7	barium sulphate, natural	2.5-5.0%	
SVHC None.			

#### 4 First-aid measures

### Description of first aid measures

General information: Personal protection for the First Aider. After inhalation: Take affected persons into fresh air and keep quiet. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air or oxygen; call for doctor. Do not use mouth to mouth or mouth to nose resuscitation. After skin contact: Flush immediately with plenty of water Remove contaminated clothing Seek medical treatment.

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After eye contact: Rinse opened eye for several minutes under running water. Remove any contact lenses Seek medical treatment. After swallowing: Rinse mouth with water

Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### 5 Fire-fighting measures

### Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. **Special hazards arising from the substance or mixture** 

### Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released: Carbon monoxide (CO) Carbon dioxide (CO2)

Advice for firefighters

### Protective equipment:

Wear self-contained respiatory protective device. Wear fully protective suit.

#### 6 Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Remove persons from danger area. Ensure adequate ventilation Wear protective clothing. Use respiratory protective device against the effects of fumes/dust/aerosol. **Environmental precautions:** Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to penetrate the ground/soil.

### In case of seepage into the ground inform responsible authorities.

### Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

#### **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

### Precautions for safe handling

Work only in fume cabinet.

At all times avoid inhalation of the product and contact with skin and eyes

Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

### Conditions for safe storage, including any incompatibilities

### Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

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Prevent any seepage into the ground. Provide floor trough without outlet. Information about storage in one common storage facility: Do not store together with oxidizing and acidic materials. Further information about storage conditions: Keep receptacle tightly sealed. Store in a dry, cool, well ventilated place Protect from heat and direct sunlight. Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

### **Control parameters**

C	components with limit values that require monitoring at the workplace:
1200	1-26-2 Mica
PEL	Long-term value: 20 mppcf ppm <1% crystalline silica
REL	Long-term value: 3* mg/m <sup>3</sup> *respirable dust; containing < 1% quartz
TLV	Long-term value: 3* mg/m <sup>3</sup> *as respirable fraction
471-:	34-1 calcium carbonate
PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	TLV withdrawn
7727	-43-7 barium sulphate, natural
PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: (10) NIC-5* mg/m³ *inhalable fraction
	Additional information: The lists that were valid during the creation were used as basis

Additional information: The lists that were valid during the creation were used as basis.

### Exposure controls

### Personal protective equipment:

#### General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Be sure to clean skin thoroughly after work and before breaks. Avoid contact with the eyes and skin. Do not inhale gases / fumes / aerosols.

### Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use selfcontained respiratory protective device.

### Protection of hands:



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves** 

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### Eye protection:



Tightly sealed goggles

Body protection: Impervious protective clothing

### \* 9 Physical and chemical properties

nformation on basic physical and chem	ical properties
General Information	
Appearance: Form:	
Color:	Viscous
Odor:	Grey Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	94 °C (201 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	1.73 g/cm <sup>3</sup> (14.437 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Segregation coefficient (n-octanol/wa	ater): Not determined



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## Material Safety Data Sheet acc. to ISO/DIS 11014

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Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0.0 %
Other information	The material polymerizes to 100% solids, after mixing and reaction with the corresponding "Part B" of the product.

### 10 Stability and reactivity

### Reactivity

### Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents.

**Conditions to avoid** No further relevant information available.

Incompatible materials:

Reacts with strong acids.

Strong oxydizing agents

Hazardous decomposition products: Carbon monoxide

Carbon dioxide

### 11 Toxicological information

### Information on toxicological effects

Acute toxicity:

L	_D/LC	50 values that are relevant for classification:	
28064-1	14-4 Bi	sphenol F, reaction product with epichlorohydrin	
Oral	LD50	>2000 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rabbit)	
F	Primary irritant effect:		

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

### **Carcinogenic categories**

	NRC (International Agency for Research on Cancer)	
13983-17-0	Natural wollastonite	3
13463-67-7	titanium dioxide	2B
14808-60-7	Quartz (SiO2)	1
N	TP (National Toxicology Program)	
14808-60-7	Quartz (SiO2)	K
C	SHA-Ca (Occupational Safety & Health Administration)	
None of the	ingredients is listed.	
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### 12 Ecological information

### Toxicity

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Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. **Ecotoxical effects:** Remark: Toxic for fish Additional ecological information: General notes: Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms Results of PBT and vPvB assessment **PBT:** Not available. vPvB: Not available. Other adverse effects No further relevant information available.

### 13 Disposal considerations

### Waste treatment methods

#### **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose safely in accordance with local and national legislations

### **Uncleaned packagings:**

Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, ADR, IMDG, IATA	UN3082
UN proper shipping name	
DOT	<ul> <li>- (Not regulated for transport)</li> <li>Environmentally hazardous substances, liquid, n.o.s.</li> </ul>
ADR	3082 Environmentally hazardous substances, liquid, n.o.s. (Bisphenol F, reaction product with epichlorohydrin)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol F, reaction product with epichlorohydrin), MARINE POLLUTANT
ΙΑΤΑ	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol F, reaction product with epichlorohydrin)
Transport hazard class(es)	
DOT, ADR, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
	(Contd. on page



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	(Contd. of page		
Label	9		
Packing group			
ADR, IMDG, IATA	III		
Environmental hazards:	Product contains environmentally hazardous substances: Bisphenol F, reaction product with epichlorohydrin		
Marine pollutant:	Yes		
	Symbol (fish and tree)		
Special marking (ADR):	Symbol (fish and tree)		
Special marking (IATA):	Symbol (fish and tree)		
Special precautions for user	Warning: Miscellaneous dangerous substances and articles		
Danger code (Kemler):	90		
EMS Number:	F-A,S-F		
Transport in bulk according to Annex	ll of		
MARPOL73/78 and the IBC Code	Not applicable.		
Transport/Additional information:			
DOT			
Remarks:	Special marking with the symbol (fish and tree).		
UN "Model Regulation":	UN3082, Environmentally hazardous substances, liquid, n.o.s. (Bisphenol F, reaction product with epichlorohydrin), 9, III		

### 15 Regulatory information

## Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

S	ection 355 (extremely hazardous substances):			
None of the	None of the ingredients is listed.			
S	Section 313 (Specific toxic chemical listings):			
None of the	None of the ingredients is listed.			
TSCA (Toxic Substances Control Act):				
28064-14-4	Bisphenol F, reaction product with epichlorohydrin			
1317-65-3	Calcium carbonate			
471-34-1	calcium carbonate			
7727-43-7	barium sulphate, natural			
13463-67-7	titanium dioxide			
7440-44-0	carbon			
14808-60-7	Quartz (SiO2)			
Prop	Proposition 65			
C	hemicals known to cause cancer:			
14808-60-7	14808-60-7 Quartz (SiO2)			
Chemicals known to cause reproductive toxicity for females:				

None of the ingredients is listed.

### Chemicals known to cause reproductive toxicity for males:

### None of the ingredients is listed.

### Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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A4

A2

D, CBD(inh), NL(oral)

Carcinogenic categories
EPA (Environmental Protection Agency)

7727-43-7 barium sulphate, natural

TLV (Threshold Limit Value established by ACGIH)

13463-67-7 titanium dioxide

14808-60-7 Quartz (SiO2)

### NIOSH-Ca (National Institute for Occupational Safety and Health)

13463-67-7 titanium dioxide

14808-60-7 Quartz (SiO2)

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



Signal word Warning

Hazard-determining components of labeling: Bisphenol F, reaction product with epichlorohydrin

titanium dioxide Hazard statements Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer. Toxic to aquatic life with long lasting effects. **Precautionary statements** If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Avoid breathing dust/fume/gas/mist/vapours/spray. 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. Specific treatment (see on this label). Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Product safety department Contact: Seal For Life Technologies & Services B.V. Gasselterstraat 20, 9503JB Stadskanaal, the Netherlands Tel: +31 599 696 170; Fax. +31 599 696 177; Email: info@sealforlife.com Date of preparation / last revision 07/08/2014 / 1 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists (Contd. on page 10)



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# Material Safety Data Sheet acc. to ISO/DIS 11014

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## Trade name: Powercrete R 95 Part A

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EINECS: European Inventory of Existing Commercial Chemical Substances	, 1 <b>0</b> ,
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A	
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1	
Carc. 2: Carcinogenicity, Hazard Category 2	
: Hazardous to the aquatic environment - AcuteHazard, Category 2	
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2	
* Data compared to the previous version altered.	
	———— USA —