

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/16/2015

Version 4

Reviewed on 07/16/2015

**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)

**Product category** PC9a Coatings and paints, thinners, paint removers

**Process category**

PROC10 Roller application or brushing

PROC11 Non industrial spraying

**Environmental release category**

ERC8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix

**Application of the substance / the mixture** Epoxy resin

**Uses advised against** -

**Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:** Seal For Life Industries - Powercrete™

**Contact details**

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**Information department:** Occupational product safety department of Seal For Life Industries

**Emergency telephone number:**

For worldwide 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. 1A

H350 May cause cancer. Route of exposure: Inhalation.

(Contd. on page 2)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/16/2015

Version 4

Reviewed on 07/16/2015

**Trade name: Powercrete R-95 Part A**

(Contd. of page 1)



GHS09 Environment

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May 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**



GHS07



GHS08



GHS09

**Signal word** Danger

**Hazard-determining components of labeling:**

Bisphenol F, reaction product with epichlorohydrin  
titanium dioxide  
Quartz (SiO<sub>2</sub>)

**Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H350 May cause cancer. Route of exposure: Inhalation.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P280 Wear protective gloves.  
P280 Wear eye protection / face protection.  
P273 Avoid release to the environment.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see on this label).  
P302+P352 If on skin: Wash with plenty of water.  
P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.  
P363 Wash contaminated clothing before reuse.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P391 Collect spillage.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 3)

**Safety Data Sheet**  
 acc. to OSHA HCS

Printing date 07/16/2015

Version 4

Reviewed on 07/16/2015

**Trade name: Powercrete R-95 Part A**

(Contd. of page 2)

**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.

<b>Dangerous components:</b>		
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; Aquatic Acute 2, H401	35-60%
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%
13463-67-7	titanium dioxide ⚠ Carc. 2, H351	1.0-2.5%

**4 First-aid measures**
**Description of first aid measures**
**General information:** Personal protection for the First Aider.

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** If symptoms persist consult doctor.

**Information for doctor:**
**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:**

 CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide (CO)

**Advice for firefighters**
**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

(Contd. on page 4)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/16/2015

Version 4

Reviewed on 07/16/2015

**Trade name: Powercrete R-95 Part A**

(Contd. of page 3)

**6 Accidental release measures**

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

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:**

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.

Do not allow to enter sewers/ surface or ground water.

**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**

**Handling:**

**Precautions for safe handling** Ensure appropriate ventilation/exhaust at the workplace.

**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:** Prevent any seepage into the ground.

**Information about storage in one common storage facility:**

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Store away from oxidizing agents.

**Further information about storage conditions:** Keep receptacle tightly sealed.

**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**

<b>Components with limit values that require monitoring at the workplace:</b>	
<b>12001-26-2 Mica</b>	
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
<b>471-34-1 calcium carbonate</b>	
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

(Contd. on page 5)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/16/2015

Version 4

Reviewed on 07/16/2015

**Trade name: Powercrete R-95 Part A**

(Contd. of page 4)

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: 5* mg/m <sup>3</sup> *inhalable fraction; E

**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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

- Nitrile rubber, NBR
- Butyl rubber, BR

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**

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**

- Form:** Viscous
- Color:** Grey
- Odor:** Characteristic
- Odour threshold:** Not determined.

**pH-value:** Not determined.

(Contd. on page 6)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/16/2015

Version 4

Reviewed on 07/16/2015

**Trade name: Powercrete R-95 Part A**

(Contd. of page 5)

<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
<b>Flash point:</b>	> 93 °C (> 199 °F)
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapor pressure:</b>	Not determined.
<b>Density at 20 °C (68 °F):</b>	1.78 g/cm <sup>3</sup> (14.854 lbs/gal)
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Not miscible or difficult to mix.
<b>Segregation coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Other information</b>	No further relevant information available.

**10 Stability and reactivity**

**Reactivity** No further relevant information available.

**Chemical stability**

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**Possibility of hazardous reactions**

Reacts with acids.

Reacts with alkali (lyes).

Reacts with oxidizing agents.

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

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** Carbon monoxide

(Contd. on page 7)

**Safety Data Sheet**  
 acc. to OSHA HCS

Printing date 07/16/2015

Version 4

Reviewed on 07/16/2015

**Trade name: Powercrete R-95 Part A**

(Contd. of page 6)

**11 Toxicological information**
**Information on toxicological effects**
**Acute toxicity:**
**LD/LC50 values that are relevant for classification:**
**28064-14-4 Bisphenol F, reaction product with epichlorohydrin**

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**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**
**IARC (International Agency for Research on Cancer)**

13983-17-0	Natural wollastonite	3
13463-67-7	titanium dioxide	2B
14808-60-7	Quartz (SiO <sub>2</sub> )	1

**NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO <sub>2</sub> )	K
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**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information**
**Toxicity**
**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

**Behavior in environmental systems:**
**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Ecotoxicological 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.

(Contd. on page 8)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/16/2015

Version 4

Reviewed on 07/16/2015

**Trade name: Powercrete R-95 Part A**

(Contd. of page 7)

**13 Disposal considerations**

**Waste treatment methods**

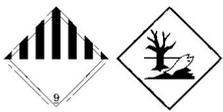
**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

<b>UN-Number</b> DOT, ADR, IMDG, IATA	UN3082
<b>UN proper shipping name</b> DOT	Environmentally hazardous substances, liquid, n.o.s. (Bisphenol F, reaction product with epichlorohydrin)
<b>ADR</b>	3082 Environmentally hazardous substances, liquid, n.o.s. (Bisphenol F, reaction product with epichlorohydrin)
<b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol F, reaction product with epichlorohydrin), MARINE POLLUTANT
<b>IATA</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol F, reaction product with epichlorohydrin)
<b>Transport hazard class(es)</b> DOT, ADR, IMDG, IATA	
	
<b>Class Label</b>	9 Miscellaneous dangerous substances and articles 9
<b>Packing group</b> DOT, ADR, IMDG, IATA	III
<b>Environmental hazards:</b>	Product contains environmentally hazardous substances: Bisphenol F, reaction product with epichlorohydrin
<b>Marine pollutant:</b>	Yes Symbol (fish and tree)
<b>Special marking (ADR):</b>	Symbol (fish and tree)
<b>Special marking (IATA):</b>	Symbol (fish and tree)
<b>Special precautions for user</b> Danger code (Kemler): EMS Number:	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>DOT</b> Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit

(Contd. on page 9)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/16/2015

Version 4

Reviewed on 07/16/2015

**Trade name: Powercrete R-95 Part A**

(Contd. of page 8)

<b>Remarks:</b>	Special marking with the symbol (fish and tree).
<b>ADR</b> <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>IMDG</b> <b>Limited quantities (LQ)</b> <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>UN "Model Regulation":</b>	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**

<b>Section 355 (extremely hazardous substances):</b>	
None of the ingredients is listed.	
<b>Section 313 (Specific toxic chemical listings):</b>	
7727-43-7	barium sulphate, natural
<b>TSCA (Toxic Substances Control Act):</b>	
28064-14-4	Bisphenol F, reaction product with epichlorohydrin
1317-65-3	Calcium carbonate
7727-43-7	barium sulphate, natural
13463-67-7	titanium dioxide
14808-60-7	Quartz (SiO <sub>2</sub> )
1317-61-9	triiron tetraoxide
<b>Proposition 65</b>	
<b>Chemicals known to cause cancer:</b>	
13463-67-7	titanium dioxide
14808-60-7	Quartz (SiO <sub>2</sub> )
<b>Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	
<b>Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients is listed.	
<b>Chemicals known to cause developmental toxicity:</b>	
None of the ingredients is listed.	

**Carcinogenic categories**

<b>EPA (Environmental Protection Agency)</b>		
7727-43-7	barium sulphate, natural	D, CBD(inh), NL(oral)
<b>TLV (Threshold Limit Value established by ACGIH)</b>		
13463-67-7	titanium dioxide	A4
14808-60-7	Quartz (SiO <sub>2</sub> )	A2
<b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
13463-67-7	titanium dioxide	
14808-60-7	Quartz (SiO <sub>2</sub> )	

(Contd. on page 10)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/16/2015

Version 4

Reviewed on 07/16/2015

**Trade name: Powercrete R-95 Part A**

(Contd. of page 9)

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

**Hazard pictograms**



GHS07 GHS08 GHS09

**Signal word** Danger

**Hazard-determining components of labeling:**

Bisphenol F, reaction product with epichlorohydrin  
titanium dioxide  
Quartz (SiO<sub>2</sub>)

**Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
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**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P280 Wear protective gloves.  
P280 Wear eye protection / face protection.  
P273 Avoid release to the environment.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see on this label).  
P302+P352 If on skin: Wash with plenty of water.  
P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.  
P363 Wash contaminated clothing before reuse.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P391 Collect spillage.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 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:** Occupational product safety department of Seal For Life Industries

**Contact:**

Seal For Life Industries  
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**Date of preparation / last revision** 07/16/2015 / 3

**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 Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists

(Contd. on page 11)

**Safety Data Sheet  
acc. to OSHA HCS**

Printing date 07/16/2015

Version 4

Reviewed on 07/16/2015

---

**Trade name: Powercrete R-95 Part A**

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(Contd. of page 10)

EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
vPvB: very Persistent and very Bioaccumulative  
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. 1A: Carcinogenicity, Hazard Category 1A  
Carc. 2: Carcinogenicity, Hazard Category 2  
Aquatic Acute 2: Hazardous to the aquatic environment - AcuteHazard, Category 2  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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