

Printing date 08/20/2014

SEALFORLIFE

wercrete

Version 4

Reviewed on 08/20/2014

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

Product identifier Powercrete J Part A

Trade name: Powercrete J 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 - Powercrete ™

#### **Contact details**

Seal For Life Industries LLC 103 J.L. Farmer Road, Franklin KY, 42134 USA Tel. (+1) 508-918-1600, Fax. (+1) 508-918-1910, Email: franklin@sealforlife.com

Seal For Life India Private Ltd. Baroda, India Tel: +91 2667 264 721, Fax: +91 2667 264 724, Email: india@sealforlife.com

Seal For Life Industries BVBA Nijverheidsstraat 13, B-2260 Westerlo, Belgium Tel. +32 14 72 25 00, Fax. +32 14 72 25 70, belgium@sealforlife.com

Seal For Life Industries - Stopaq B.V. Gasselterstraat 20, 9503JB Stadskanaal, the Netherlands Tel +31 599 696 170, Fax +31 599 696 177, info@sealforlife.com

Seal For Life Industries Mexico S de R.L. de C.V. Tijuana, Mexico Tel USA: +1 858 633 9797, Tel Mx: +52 664 647 4397 Fax USA: +1 858 633 9740, Fax Mx: +52 664 607 9105 mexico@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)

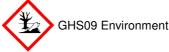
# 2 Hazard(s) identification

#### Classification of the substance or mixture

 GHS08 Health hazard

 Carc. 1A
 H350
 May cause cancer. Route of exposure: Inhalative.

 STOT RE 2
 H373
 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.



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

Printing date 08/20/2014

Version 4

Reviewed on 08/20/2014

Trade name: Powercrete J Part A

owercrete

SEALFORLIFE

(Contd. of page 1)

 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



#### Signal word Danger

#### Hazard-determining components of labeling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700) Quartz (SiO2)

Polypropylene glycol, (chloromethyl) oxirane polymer

Phenol, 4-(1,1-dimethylethyl)-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol] **Hazard statements** 

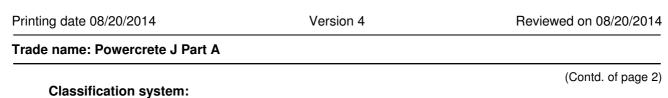
Causes skin irritation.

Causes serious eye irritation. May cause an allergic skin reaction. May cause cancer. Route of exposure: Inhalative. May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative. 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. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Avoid release to the environment. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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). Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Get medical advice/attention if you feel unwell. IF ON SKIN: Wash with plenty of water. Collect spillage.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 3)





Other hazards

**Powercrete**®

SEALFORLIFE

#### 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:		
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700)	25-50%
	🚯 Aquatic Chronic 2, H411; 🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
	Polypropylene glycol, (chloromethyl) oxirane polymer	2.5-5.0%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
67924-34-9	Phenol, 4-(1,1-dimethylethyl)-, polymer with (chloromethyl)oxirane and 4,4'-(1- methylethylidene)bis[phenol]	2.5-5.0%
	🕂 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; Aquatic Chronic 4, H413	
14808-60-7	Quartz (SiO2)	1.0-2.5%
	🚸 Carc. 1A, H350; STOT RE 1, H372-H373; 🚸 Acute Tox. 4, H302; Acute Tox. 4, H332	

#### 4 First-aid measures

#### Description of first aid measures

## After inhalation:

Take affected persons into fresh air and keep quiet.

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:

Do not induce vomiting; immediately call for medical help.

Rinse out mouth and then drink plenty of water.

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.

(Contd. on page 4)

Version 4

Printing date 08/20/2014

SEALFORLIFE

Powercrete

Reviewed on 08/20/2014

Trade name: Powercrete J Part A

(Contd. of page 3)

#### 5 Fire-fighting measures

#### Extinguishing media

Suitable extinguishing agents: Water haze Foam Fire-extinguishing powder Carbon dioxide

# Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced. In case of fire, the following can be released: Hydrogen chloride (HCI) Carbon monoxide (CO) Carbon dioxide (CO2) 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.

#### 6 Accidental release measures

#### Personal precautions, protective equipment and emergency procedures Not required. **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

#### Precautions for safe handling

Avoid ignition sources Keep away from heat and direct sunlight. Ensure appropriate ventilation/exhaust at the workplace. Prevent formation of aerosols. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect from heat.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Provide floor trough without outlet. Information about storage in one common storage facility: Store away from oxidizing agents.

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Further information about storage conditions:

Store in dry conditions.

Version 4

Reviewed on 08/20/2014

Trade name: Powercrete J Part A

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**

Components with limit values that require monitoring at the workplace:			
1480	14808-60-7 Quartz (SiO2)		
PEL	see Quartz listing		
REL	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A		
TLV	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction		
	Additional information: The lists that were valid during the creation were used as basis.		

# Exposure controls

# Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

#### 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. 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: Protective work clothing

(Contd. on page 6)



Printing date 08/20/2014

(Contd. of page 4)

Printing date 08/20/2014

**Powercrete**<sup>®</sup>

Liquid Coating Technology SEALFORLIFE

 $\star$ 

Version 4

Reviewed on 08/20/2014

## Trade name: Powercrete J Part A

(Contd. of page 5)

9 Physical and chemical properties			
Information on basic physical and chemical properties			
General Information			
Appearance: Form:	Viscous		
Color:	Brown		
Odor:	Mild		
Odour threshold:	Not determined.		
pH-value:	Not determined.		
Change in condition			
Melting point/Melting range:	Undetermined.		
Boiling point/Boiling range:	201 °C (394 °F)		
Flash point:	> 93 °C (> 199 °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):	1.78 g/cm³ (14.854 lbs/gal)		
Relative density	Not determined.		
Vapour density	Not determined.		
Evaporation rate	Not determined.		
Solubility in / Miscibility with Water:	Not missible or difficult to mix		
	Not miscible or difficult to mix.		
Segregation coefficient (n-octanol/water): Not determined.			
Viscosity:	Net determined		
Dynamic: Kinematic:	Not determined.		
	Not determined.		
Solvent content:	0.0.0/		
Organic solvents: Other information	0.0 %		
	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 No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials:

Reacts with oxidizing agents.

Printing date 08/20/2014

Reviewed on 08/20/2014

(Contd. of page 6)

Trade name: Powercrete J Part A

Reacts with strong acids. Strong alkalines

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

#### Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

-				
25068-3	25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)			
Oral	LD50	>2000 mg/kg (rat)		
Dermal	LD50	>4000 mg/kg (rat)		
		>22000 mg/kg (rabbit)		
9072-62	9072-62-2 Polypropylene glycol, (chloromethyl) oxirane polymer			
Oral	LD50	>2000 mg/kg (rat)		
14808-6	14808-60-7 Quartz (SiO2)			
Oral	LD50	1300 mg/kg (rat)		

# 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)		
14808-60-7 Quartz (SiO2)	1	
NTP (National Toxicology Program)		
14808-60-7 Quartz (SiO2)	K	
OSHA-Ca (Occupational Safety & Health Administration)		
67924-34-9 Phenol, 4-(1,1-dimethylethyl)-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene) bis[phenol]		

# 12 Ecological information

#### Toxicity

Aquat	ic toxicity:		
25068-38-	6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)		
EC50/24h	3.6 mg/l (Daphnia magna)		
EC50/48h	1.4-1.7 mg/l (Daphnia magna)		
LC50/96h	1.5 mg/l (Fish - Oncorhynchus mykiss)		
	2.4 mg/l (Fish - Brachydanio rerio)		
Persister	Persistence and degradability No further relevant information available.		
	Bioaccumulative potential No further relevant information available.		
Mobility i	Mobility in soil No further relevant information available.		
Ecoto	Ecotoxical effects:		

Remark: Toxic for fish



ſ

Version 4

Version 4

Reviewed on 08/20/2014

(Contd. of page 7)

Trade name: Powercrete J Part A

**Powercrete**<sup>®</sup>

Printing date 08/20/2014

SEALFORLIFE

 $\star$ 

# Additional ecological information:

General notes: Toxic for aquatic organisms 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. 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:

Dispose safely in accordance with local and national legislations 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.

UN-Number	
DOT, ADR, IMDG, IATA	UN3082
UN proper shipping name	
DOT	Environmentally hazardous substances, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700))
ADR	3082 Environmentally hazardous substances, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700))
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)), MARINE POLLUTANT
ΙΑΤΑ	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700))
Transport hazard class(es)	
DOT, ADR, IMDG, IATA	
Class Label	9 Miscellaneous dangerous substances and articles 9
Packing group DOT, ADR, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: reactio product: bisphenol-A-(epichlorhydrin) epoxy resin (number averamolecular weight $\leq$ 700)



Page 9/11

Printing date 08/20/2014	Version 4	Reviewed on 08/20/2014
Trade name: Powercrete J Part A		

	(Contd. of page 8	
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 II	of	
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
DOT		
Quantity limitations	On passenger aircraft/rail: No limit	
-	On cargo aircraft only: No limit	
Remarks:	Special marking with the symbol (fish and tree).	
ADR		
Excepted quantities (EQ)	Code: E1	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 1000 ml	
IMDG		
Limited quantities (LQ)	5L	
Excepted quantities (EQ)	Code: E1	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 1000 ml	
UN "Model Regulation":	UN3082, Environmentally hazardous substances, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	
	(number average molecular weight $\leq$ 700)), 9, III	

# \*15 Regulatory information

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

Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
1313-13-9 manganese dioxide	
1344-28-1 aluminium oxide	
TSCA (Toxic Substances Control Act):	
All ingredients of this product are included, or are exempted from inclusion in the EPA T (TSCA) Chemical Substance Inventory	oxic Substances Control Act
Proposition 65	
Chemicals known to cause cancer:	
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.	
	(Contd. on page 10
	USA —

Printing date 08/20/2014

SEALFORLIFE

**owercrete** 

Version 4

Reviewed on 08/20/2014

(Contd. of page 9)

D

A2

A4

Trade name: Powercrete J Part A

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### **Carcinogenic categories**

**EPA (Environmental Protection Agency)** 

1313-13-9 manganese dioxide

#### TLV (Threshold Limit Value established by ACGIH)

14808-60-7 Quartz (SiO2)

1344-28-1 aluminium oxide

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

#### 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 Danger

#### Hazard-determining components of labeling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700) Quartz (SiO2) Polypropylene glycol, (chloromethyl) oxirane polymer Phenol, 4-(1,1-dimethylethyl)-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol] Hazard statements Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause cancer. Route of exposure: Inhalative. May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative. 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. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Avoid release to the environment. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsina. Specific treatment (see on this label). Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Get medical advice/attention if you feel unwell. IF ON SKIN: Wash with plenty of water. Collect spillage. Store locked up.

Printing date 08/20/2014

SEALFORLIFE

**Powercrete**<sup>®</sup>

 $\star$ 

Version 4

Reviewed on 08/20/2014

Trade name: Powercrete J Part A

(Contd. of page 10) 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 08/20/2014 / 3	
Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning th Dangerous Goods by Road)	e International Carriage of
IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
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)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent	
LD50: Lethal doise. 50 percent	
Acute Tox. 4: Acute toxicity, Hazard Category 4	
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	
Eve Irrit. 2: Serious eve damage/eve 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	
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1	
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2	
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2	
Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4	
* Data compared to the previous version altered.	
	——— USA —