

SAFETY DATA SHEET

Based on Regulation (EC) No. 1907/2006 (REACH) Article 31 and Annex II

Powercrete R65/F1 part A

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name: Powercrete R65/F1 part A

1.2 Use of the substance/preparation:

Coating
Epoxy resin

1.3 Company/undertaking identification:

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2. Hazards identification

NFPA: 1-0-0(*)

DSD/DPD

Classified dangerous in accordance with Directives 67/548/EEC and 1999/45/EC
Irritating to eyes and skin
May cause sensitisation by skin contact
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

3. Composition/information on ingredients

Name	CAS No EINECS/ELINCS	Conc.	Classification according to DSD/ DPD	Classification according to CLP	Note
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <=700)	25068-38-6	30 - 40 %	Xi; R37/38 R43 N; R51-53	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	(1)

(1) For R-phrases and H-statements in full: see heading 16

4. First aid measures

4.1 After inhalation:

Remove the victim into fresh air
Respiratory problems: consult a doctor/medical service

4.2 Skin contact:

Wash immediately with lots of water
Take victim to a doctor if irritation persists

4.3 Eye contact:

Rinse immediately with plenty of water
Take victim to an ophthalmologist if irritation persists

4.4 After ingestion:

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Rinse mouth with water
Immediately after ingestion: give lots of water to drink
Do not induce vomiting
Consult a doctor/medical service if you feel unwell

5. Fire-fighting measures

5.1 Suitable extinguishing media:

Polyvalent foam
BC powder
Carbon dioxide

5.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known

5.3 Special exposure hazards:

Temperature above flashpoint: higher fire/explosion hazard
On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide)

5.4 Instructions:

Cool tanks/drums with water spray/remove them into safety
Dilute toxic gases with water spray
Take account of environmentally hazardous firefighting water
Use water moderately and if possible collect or contain it

5.5 Special protective equipment for fire-fighters:

Gloves
Face-shield
Protective clothing
Heat/fire exposure: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal precautions:

See heading 8.2

6.2 Environmental precautions:

Contain released substance, pump into suitable containers
Plug the leak, cut off the supply
Dam up the liquid spill
Prevent soil and water pollution
Prevent spreading in sewers
See heading 13

6.3 Methods for cleaning up:

Take up liquid spill into absorbent material, e.g.: sand/earth
Scoop absorbed substance into closing containers
Carefully collect the spill/leftovers
Clean contaminated surfaces with an excess of water
Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:

Keep away from naked flames/heat
Observe very strict hygiene - avoid contact
Keep container tightly closed
Do not discharge the waste into the drain

7.2 Storage:

Safe storage requirements:

Store in a cool area
Keep out of direct sunlight
Keep container in a well-ventilated place
Store in a dry area

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Provide for a tub to collect spills
Meet the legal requirements
Storage temperature: 5 - 40 °C

Keep away from:

oxidizing agents
(strong) acids
(strong) bases

7.3 Specific use(s):

See information supplied by the manufacturer for the identified use(s)

8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods:

Product name	Test	Number	Sampling method	Remarks
No data available				

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

Carry operations in the open/under local exhaust/ventilation or with respiratory protection

Personal protective equipment:

a) Respiratory protection:

High gas/vapour concentration: gas mask with filter type A

b) Hand protection:

Gloves

- butyl rubber

c) Eye protection:

Face shield

d) Skin protection:

Protective clothing

8.2.2 Environmental exposure controls:

See headings 6.2, 6.3 and 13

9. Physical and chemical properties

9.1 General information:

Physical form	Liquid
Odour	Mild odour
Colour	Off-white

9.2 Important health, safety and environmental information:

Boiling point	> 260 °C
Flashpoint	251 °C
Relative density	1.89 - 1.95

9.3 Other information:

10. Stability and reactivity

10.1 Conditions to avoid:

Possible fire hazard

heat sources

Stability

Stable under normal conditions

10.2 Materials to avoid:

oxidizing agents
(strong) acids
(strong) bases

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10.3 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide)

11. Toxicological information

11.1 Acute toxicity:

No (test)data on the mixture available.

11.2 Chronic toxicity:

Not listed in carcinogenicity class (IARC,EC,TLV,MAK)

Not listed in mutagenicity class (EC,MAK)

Not classified as toxic to reproduction (EC)

11.3 Acute effects/symptoms:

Inhalation:

No data available

Skin contact:

Tingling/irritation of the skin

Eye contact:

Irritation of the eye tissue

Ingestion:

No data available

11.4 Chronic effects:

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:

Skin rash/inflammation

12. Ecological information

12.1 Ecotoxicity:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)

LC50 fishes

species	value	duration (h)	remarks
SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS	1.5 - 7.7 mg/l	96 h	

EC50 Daphnia

species	value	duration (h)	remarks
DAPHNIA MAGNA	1.1 - 3.6 mg/l	24 h	

EC50 other aquatic organisms

species	value	duration (h)	remarks
CHLOROPHYTA	220 mg/l	96 h	

12.2 Mobility:

Solubility in/reaction with water

Literature reports: insoluble in water

Substance sinks in water

12.3 Persistence and degradability:

12.4 Bioaccumulative potential:

12.5 Results of PBT assessment:

Not applicable, based on available data

12.6 Other adverse effects:

Not dangerous for the ozone layer (1999/45/EC)

13. Disposal considerations

13.1 Provisions relating to waste:

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Waste material code (Directive 2008/98/EC, decision 2001/118/EC)

08 01 11* : waste paint and varnish containing organic solvents or other dangerous substances

Depending on branch of industry and production process, also other EURAL codes may be applicable

Hazardous waste according to Directive 2008/98/EC

13.2 Disposal methods:

Allow waste to solidify

Dehydrate

Remove to an authorized dump (Class II)

Remove waste in accordance with local and/or national regulations

Do not discharge into the sewer

13.3 Packaging/Container:

Waste material code packaging (Directive 2008/98/EC)

15 01 10* : packaging containing residues of or contaminated by dangerous substances

14. Transport information

ADR

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Techn./chem. name ADR	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)
UN number	3082
Class	9
Packing group	III
Hazard identification number	90
Classification code	M6
Labels	9
Environmentally hazardous substance mark	yes

RID

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Techn./chem. name RID	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)
UN number	3082
Class	9
Packing group	III
Classification code	M6
Labels	9
Environmentally hazardous substance mark	yes

ADNR

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Techn./chem. name ADNR	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)
UN number	3082
Class	9
Packing group	III
Classification code	M6
Labels	9
Environmentally hazardous substance mark	yes

IMO

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Techn./chem. name IMO	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)
UN number	3082
Class	9

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Packing group	III
Labels	9
Marine pollutant	P
Environmentally hazardous substance mark	yes

ICAO

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Techn./chem. name ICAO	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)
UN number	3082
Class	9
Packing group	III
Labels	9
Environmentally hazardous substance mark	yes

15. Regulatory information

15.1 EU Legislation:

DSD/DPD

Classification according to directives 67/548/EEC, 1999/45/EC and 2006/8/EC



Irritant



Dangerous for the environment

Contains: reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)

R-phrases

36/38	Irritating to eyes and skin
43	May cause sensitisation by skin contact
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases

(02)	(Keep out of the reach of children)
24	Avoid contact with skin
28	After contact with skin, wash immediately with plenty of water and soap
37/39	Wear suitable gloves and eye/face protection
(46)	(If swallowed, seek medical advice immediately and show this container or label)
61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Additional recommendations

	Contains epoxy constituents. See information supplied by the manufacturer.
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15.2 National provisions:

16. Other information

Powercrete R65/F1 part A

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question.

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(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Full text of any R-phrases referred to under headings 2 and 3:

R36/38	Irritating to eyes and skin
R43	May cause sensitisation by skin contact
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of any H-statements referred to under headings 2 and 3:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Full text of any classes referred to under headings 2 and 3:

Aquatic Chronic	Hazardous to the aquatic environment - chronic
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization