

SAFETY DATA SHEET

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

Powercrete PW-A Part B

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

1.1 Identification of the substance or preparation:

Product name Powercrete PW-A Part B
CAS number 161278-27-9
EC number 500-618-5

1.2 Use of the substance/preparation:

Professional use
Hardener
Coating

1.3 Company/undertaking identification:

Berry Plastics BVBA
Nijverheidsstraat 10-11
B-2600 Westerlo
Tel: +32 14 72 25 00
Fax: +32 14 72 25 70
cpge@berryplastics.com

1.4 Emergency telephone:

24h/24h:
+32 14 58 45 45 (BIG)
USA: +1 800 424 93 00
During business hours:
888 767 7200 Berry Plastics Corrosion Protection Group Houston

2. Hazards identification

DSD/DPD

Harmful by inhalation and if swallowed
Causes burns
May cause sensitisation by skin contact
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Other hazards

Combustible
Literature reports: not readily degradable in water

CLP

Acute Tox. 4 Harmful if swallowed. (H302)
Skin Corr. 1B Causes severe skin burns and eye damage. (H314)
Skin Sens. 1 May cause an allergic skin reaction. (H317)
Acute Tox. 4 Harmful if inhaled. (H332)
Aquatic Chronic 3 Harmful to aquatic life with long lasting effects. (H412)

Other hazards

Combustible
Literature reports: not readily degradable in water

3. Composition/information on ingredients

Name	CAS No EINECS/ELINCS	Conc.	Classification according to DSD/ DPD	Classification according to CLP	Note
paraformaldehyde, oligomeric reaction products with 4-tert-butylphenol, 4-nonylphenol, m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine	161278-27-9 500-618-5	>99%	Xn; R20/22 C; R34 R43 R52-53	Acute Tox. 4; H332 Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	

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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 (15 minutes)/shower
Remove clothing while washing
Do not remove clothing if it sticks to the skin
Cover wounds with sterile bandage
Consult a doctor/medical service
If burned surface >10%: take victim to hospital

4.3 Eye contact:

Rinse immediately with plenty of water for 15 minutes
Do not apply neutralizing agents
Take victim to an ophthalmologist

4.4 After ingestion:

Rinse mouth with water
Immediately after ingestion: give lots of water to drink
Do not induce vomiting
Do not give activated charcoal
Immediately consult a doctor/medical service

5. Fire-fighting measures

5.1 Suitable extinguishing media:

BC powder
Carbon dioxide
Sand/earth
Water spray
Polyvalent foam

5.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium

5.3 Special exposure hazards:

Temperature above flashpoint: higher fire/explosion hazard
On burning: release of toxic and corrosive gases/vapours (nitrous vapours, 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 toxic fire-fighting water
Use water moderately and if possible collect or contain it
Heat exposure: dilute toxic gas/vapour with water spray

5.5 Special protective equipment for fire-fighters:

Gloves
Face-shield
Corrosion-proof suit
Large spills/in enclosed spaces: compressed air apparatus
Large spills/in enclosed spaces: gas-tight suit
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

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Plug the leak, cut off the supply
Dam up the liquid spill
Take account of toxic/corrosive precipitation water
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
Damaged/cooled tanks must be emptied
Clean contaminated surfaces with an excess of water
Take collected spill to manufacturer/competent authority
Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:

Keep away from naked flames/heat
Finely divided: spark- and explosionproof appliances
Finely divided: keep away from ignition sources/sparks
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 at ambient temperature
Store in a dry area
Keep container in a well-ventilated place
Keep locked up
Provide for a tub to collect spills
Keep only in the original container
Meet the legal requirements

Keep away from:

oxidizing agents

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.

8.2 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

- nitrile rubber

c) Eye protection:

Face shield

d) Skin protection:

Corrosion-proof clothing

8.2.2 Environmental exposure controls:

See headings 6.2, 6.3 and 13

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9. Physical and chemical properties

9.1 General information:

Physical form	Liquid
Colour	Light brown to yellow

9.2 Important health, safety and environmental information:

Flashpoint	139 °C
Relative density	(25 °C) 1.0
Relative vapour density	> 2

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

10.3 Hazardous decomposition products:

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

11. Toxicological information

11.1 Acute toxicity:

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LD50 oral (rat)	401 - 2000 mg/kg
LD50 dermal (rabbit)	> 2000 mg/kg

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:

EXPOSURE TO HIGH CONCENTRATIONS:

Corrosion of the upper respiratory tract

Skin contact:

Caustic burns/corrosion of the skin

Eye contact:

Corrosion of the eye tissue

Ingestion:

Burns to the gastric/intestinal mucosa

11.4 Chronic effects:

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:

Skin rash/inflammation

12. Ecological information

12.1 Ecotoxicity:

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LC50 fishes

species	value	duration (h)	remarks
PISCES	10 - 100 mg/l		Similar product

EC50 Daphnia

species	value	duration (h)	remarks
INVERTEBRATA	10 - 100 mg/l		Similar product

12.2 Mobility:

Solubility in/reaction with water

Literature reports: soluble in water

12.3 Persistence and degradability:

Literature reports: not readily degradable in water

12.4 Bioaccumulative potential:

According to literature, slightly bioaccumulative

12.5 Results of PBT assessment:

Not applicable, based on available data

12.6 Other adverse effects:

Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009)

13. Disposal considerations

13.1 Provisions relating to waste:

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:

Remove waste in accordance with local and/or national regulations

Remove to an authorized plant for the destruction, neutralization and elimination of hazardous waste

Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste.

Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

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	Amines, liquid, corrosive, n.o.s.
Techn./chem. name ADR	paraformaldehyde, oligomeric reaction products with 4-tert-butylphenol, 4-nonylphenol, m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine
UN number	2735
Class	8
Packing group	II
Hazard identification number	80
Classification code	C7
Labels	8
Environmentally hazardous substance mark	no

RID

Proper shipping name	Amines, liquid, corrosive, n.o.s.
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Techn./chem. name RID	paraformaldehyde, oligomeric reaction products with 4-tert-butylphenol, 4-nonylphenol, m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine
UN number	2735
Class	8
Packing group	II
Classification code	C7
Labels	8
Environmentally hazardous substance mark	no

ADN

Proper shipping name	Amines, liquid, corrosive, n.o.s.
Techn./chem. name ADN	paraformaldehyde, oligomeric reaction products with 4-tert-butylphenol, 4-nonylphenol, m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine
UN number	2735
Class	8
Packing group	II
Classification code	C7
Labels	8
Environmentally hazardous substance mark	no

IMO

Proper shipping name	amines, liquid, corrosive, n.o.s. or polyamines, liquid, corrosive, n.o.s.
Techn./chem. name IMO	paraformaldehyde, oligomeric reaction products with 4-tert-butylphenol, 4-nonylphenol, m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine
UN number	2735
Class	8
Packing group	II
Labels	8
Marine pollutant	-
Environmentally hazardous substance mark	no

ICAO

Proper shipping name	Amines, liquid, corrosive, n.o.s.
Techn./chem. name ICAO	paraformaldehyde, oligomeric reaction products with 4-tert-butylphenol, 4-nonylphenol, m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine
UN number	2735
Class	8
Packing group	II
Labels	8
Environmentally hazardous substance mark	no

15. Regulatory information

15.1 EU Legislation:

DSD/DPD

Not listed in Annex I of directive 67/548/EEC et sequens. Labelling established on the basis of the available data.

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Corrosive

Contains: paraformaldehyde, oligomeric reaction products with 4-tert-butylphenol, 4-nonylphenol, m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine

R-phrases

20/22	Harmful by inhalation and if swallowed
34	Causes burns
43	May cause sensitisation by skin contact
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases

26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
36/37/39	Wear suitable protective clothing gloves, and eye/face protection
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
61	Avoid release to the environment. Refer to special instructions/safety data sheets.

CLP

Classification and labelling according to the criteria of Regulation (EC) No 1272/2008 and after evaluation of available test data



Contains: paraformaldehyde, oligomeric reaction products with 4-tert-butylphenol, 4-nonylphenol, m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine

Signal word

Dgr	Danger
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H-statements

H332	Harmful if inhaled.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

P-statements

P280	Wear protective gloves, protective clothing and eye protection/face protection.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

15.2 National provisions:

15.3 Specific community rules:

REACH Annex XVII - Restriction

Enumerated in Annex XVII of Regulation (EC) No. 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

16. Other information

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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:

R20/22	Harmful by inhalation and if swallowed
R34	Causes burns
R43	May cause sensitisation by skin contact
R52/53	Harmful 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:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

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

Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization