



For Better Construction

MATERIAL SAFETY DATA SHEET

1 Identification of the substance/preparation and company

1.1 Name of substance/preparation

Commercial product name: Redispersible Powder, Redispersible Polymer Powder

1.2 Use of substance / preparation:

Industrial binder for building materials .

All other areas of application to be agreed with the application Engineering/ Technical Marketing Department of the manufacturer.

1.3 Company name

Manufacturer/distributor: Shaoxing Beren Chemical Co Ltd
No.16 1-4 Henghe Street West Village, Baiguan District, Shangyu Area,
Shaoxing City, Zhejiang Province, P.R.China
Emergency contact:+86 1820 5888 132

2 Hazards identification

2.1 Classification:

R-Phrase Description

R- -

This product is not a dangerous preparation within the meaning of Directive 1999/45/EC.

2.2 Further hazards to man and environment:

Risk of dust explosion.

3 Composition/information on ingredients

3.1 Chemical characterization (preparation):

CAS NO.:24937-78-8

Chemical characteristics

Copolymer of vinyl acetate and ethylene with mineral additives and protective colloid

4 First-aid measures

4.1 General information:

Under ordinary workplace conditions: No special measures required.

4.2 After inhalation:

Provide fresh air.

4.3 After contact with the skin:

Wash with plenty of water or water and soap.

4.4 After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous

irritation.

4.5 After swallowing:

If conscious, give several small portions of water to drink. Do not induce vomiting.

In cases

of sickness seek medical advice (show label if possible).

4.6 Advice for the physician:

Due to its physical properties, may cause mechanical irritation. Product may agglutinate in the gastro-intestinal tract. Medical assistance should be sought. Depending on the symptoms, invasive measures may be necessary.

5 Fire-fighting measures

5.1 Suitable extinguishing media:

water spray , water mist , extinguishing powder , foam , carbon dioxide .

5.2 Extinguishing media which must not be used for safety reasons:

water jet .

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

At low oxygen level: acetic acid .

5.4 Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air.

6 Accidental release measures

6.1 Personal precautions:

Avoid dust formation. Do not breathe dust.

Redispersible Powder

6.2 Environmental precautions:

Cover any spilled material in accordance with regulations to prevent dispersal by wind.

6.3 Methods for cleaning up:

Take up mechanically and dispose of according to local/state/federal regulations.

6.4 Further information:

Eliminate all sources of ignition. Observe notes under section 7.

7 Handling and storage

7.1 Handling

Precautions for safe handling:

Avoid dust formation. Increased risk of slipping if substance comes into contact with water.

Precautions against fire and explosion:

Dust may form explosive mixture with air. Avoid formation of dust. Avoid dust deposit, remove dust regularly. Take precautionary measures against electrostatic charging. Keep away

from open flames, heat and sparks.

7.2 Storage

Conditions for storage rooms and vessels:

Observe precautionary measures against dust explosion.

Advice for storage of incompatible materials:

not applicable .

Further information for storage:

not applicable .

8 Exposure controls and personal protection equipment

8.1 Exposure limits

-

8.2 Exposure limited and controlled

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Do not breathe dust. Do not eat, drink or smoke when handling.

Personal protection equipment

Respiratory protection:

In case of dust formation: fine dust mask without protection rating .

Hand protection:

Recommendation: rubber gloves .

Eye protection:

Recommendation in case of dust formation: tight fitting protective goggles .

8.2.2 Exposure to the environment limited and controlled:

Prevent material from entering surface waters and soil.

8.3 Further information for system design and engineering measures:

Observe regulations for protection against explosion.

9 Physical and chemical properties

9.1 General information

Physical state / form.....: solid - powder

Colour.....: white to yellowish

Odour.....: odourless

9.2 Important information about the protection of health, safety and the environment

Method (67/548/EEC):

Melting point / melting range.....: not applicable

Boiling point / boiling range.....: not applicable

Flash point.....: not applicable

Auto-ignition temperature.....: > 500 ° C

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Lower explosion limit (LEL).....: 40 g/m³
Vapour pressure.....: not applicable
Bulk density.....: 490 - 590 kg/m³
(DIN EN ISO60)
Water solubility / miscibility.....: moderately soluble at 20 ° C
pH-Value.....: approx. 7 at 20 ° C (500 g/l H₂O)
Viscosity (dynamic).....: not applicable

9.3 Other information

Product forms dispersions with water. The tests on the raised dust were determined in accordance with German VDI 2263, Sheet 1, on the screened product.

Thermal decomposition.....: > 250 ° C

Median value: 41 m screened according to German VDI μ

Median value: 75 m original μ

disturbed dust

Dust explosion class: 1

Kst value.....: 70 m*bar/sec

Maximum explosion pressure: 6,7 bar

Ignition temperature: 470 ° C

Minimum ignition energy: 100 - 300 mJ with induction

Minimum ignition energy: > 1000 mJ without induction

deposited dust

Burning behavior: 5 at 20 ° C

Burning behavior: 5 at 100 ° C

Spontaneous combustion: approx. 270 ° C sample volume 400 cm³

Spontaneous combustion: approx. 295 ° C sample volume 100 cm³

Spontaneous combustion: > 300 ° C sample volume 50 cm³

Glow temperature: 400 ° C

10 Stability and reactivity

10.0 General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.1 Conditions to avoid:

none known .

10.2 Materials to avoid:

none known .

10.3 Hazardous decomposition products:

If stored and handled in accordance with standard industrial practices and local regulations

where applicable: none known . At increased temperature: acetic acid .

11 Toxicological information

11.0 General information:

According to our present state of knowledge no damaging effect expected when treated in accordance with standard industrial practices and local regulations where applicable. The toxicological results listed below are based on tests with similar materials.

11.1 Toxicological tests

Acute toxicity (LD50/LC50-values relevant to classification):

Exposition Value/value range Species Source

oral > 2000 mg/kg rat test report

Primary irritation:

Exposition Effect Species/Testsystem Source

to skin not irritating rabbit test report

to eyes not irritating rabbit test report

Further information:

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11.2 Experience with man:

During manufacture and use: No information on damage to health.

11.3 Further toxicological information:

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12 Ecological information

12.1 Ecotoxicity

Species Test method Exp. time Result Source

carp (Cyprinus carpio) acute 96 h > 1000 mg/l (LC50) test report

No expected damaging effects to aquatic organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

Test system Exp. time Result Source

sludge 0,5 h > 1000 mg/l (EC10) test report

According to current knowledge adverse effects on water purification plants are not expected.

12.2 Mobility

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12.3 Persistence and degradability

Biodegradation / further information:

Not readily biodegradable.

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Further information:

Polymer component: Elimination by adsorption to activated sludge. Easily separable from water by filtration.

12.4 Bio-accumulation potential

No adverse effects expected.

12.5 Other harmful effects

-

12.6 Additional information

General information:

Prevent material from entering surface waters and soil. Only introduce into water purification plants in diluted state. No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable. The ecotoxicological results provided were obtained from tests with similar products.

13 Disposal considerations

13.1 Material

Recommendation:

Incineration or deposit together with domestic waste is possible. Observe local/state/federal regulations.

13.2 Uncleaned packaging

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully).

Containers may be recycled or re-used. Observe local/state/federal regulations.

Recommended cleaning agent:

water .

14 Transport information

14.1 Land transport GGVSE/ADR and RID

Road ADR:

Valuation.....: Not regulated for transport

Railway RID:

Valuation.....: Not regulated for transport

14.2 Inland navigation GGVBinsch/ADNR

14.3 Transport by sea GGVSee/IMDG-Code

Valuation.....: Not regulated for transport

Marine Pollutant.....: no

14.4 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

14.5 Transport/further information

Informing dept. ref. to heading 14. Transport information:



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15 Regulatory information

15.1 Warning Label (EC)

R-Phrase Description

R- -

S-Phrase Description

S- -

15.2 National regulations:

15.3 Other international regulations

Details of international registration status

Listed on or in accordance with the following inventories:

IECSC - China

TSCA - USA

PICCS - Philippines

ENCS - Japan

ECL - Korea

DSL - Canada

AICS - Australia

EINECS - Europe

16 Other information

16.1 Material

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.