

REDRY SHIELD

SAFETY DATA SHEET

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product name:
Pandser Redry Shield

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: superabsorbents
For industrial use

Uses advised against: Not determined.

1.3 Details of the supplier of the safety data sheet

Company Name : BERDAL rubber & plastics B.V.
Bedrijvenpark Twente 193
7602 Almelo
The Netherlands

Web : www.berdal.com

Telephone : +31 546 572 672

E-mail : verkoop@berdal.com

1.4 Emergency telephone number:

24-Hour Health Emergency : +49 2365 49 2232

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

The product has not been classified as hazardous according to the legislation in force.

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not classified

2.2 Label Elements Not applicable

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

2.3 Other hazards

Spilt product creates a very slippery surface in combination with water or moisture! The product itself is not explosive; however, fine dust may mix with air to product explosive mixtures.

Results of PBT and vPvB assessment

Non-classified PBT substance, Non-classified vPvB substance

SECTION 3: Composition/information on ingredients
3.2 Mixtures

General information: No hazardous ingredients.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Sodium polyacrylate, cross-linked.	>=95%	9003-04-7	618-349-8	-	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Sodium polyacrylate, cross-linked.	Classification: None known. Supplemental label information: None known.	Not applicable

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures
4.1 Description of necessary first-aid measures

General information:	Pay attention to self-protection. Move out of dangerous area. Remove soiled clothing immediately. Keep patient warm and at rest. Do not leave the victim unattended.
Inhalation:	Move to fresh air. Get medical attention if any discomfort continues. With labored breathing: Provide with oxygen. Consult a doctor immediately. If the casualty is not breathing: Perform mouth-to-mouth resuscitation, notify emergency physician immediately.
Skin Contact:	Rinse with water. Contact physician if discomfort continues.
Eye contact:	With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes. Protect unharmed eye. Remove contact lenses if this can be easily done. Consult an ophthalmologist immediately if the symptoms persist.

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

Ingestion: In case of discomfort: Supply with medical care. In case of discomfort: Supply with medical care.

Personal Protection for First-aid Responders: Pay attention to self-protection.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Product dust may cause temporary mechanical eye irritation.

Hazards: None known.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: This substance does not have any noteworthy noxious potential. Damage to health is thus not expected. Continue with first aid measures.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media: Water spray jet foam Carbon dioxide Dry powder

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture:

May be released in case of fire: carbon oxides.

5.3 Advice for firefighters

Special fire-fighting procedures: Standard procedure for chemical fires. Pay attention to self-protection. Keep unauthorized personnel away. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for fire-fighters: As in any fire, wear self-contained positive-pressure breathing apparatus and full protective gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Handle in accordance with good industrial hygiene and safety practice. For personal protection see section 8. Spilt product creates a very slippery surface in combination with water or moisture! Avoid dust formation. Avoid breathing dust.

6.1.1 For non-emergency personnel: No data available.

6.1.2 For emergency responders: No data available.

6.2 Environmental Precautions: Prevent further leakage or spillage. Take up and dispose of. Product absorbs liquid and forms gels. Avoid generation and spreading of dust.

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

- 6.3 Methods and material for containment and cleaning up:** Use mechanical handling equipment. Pick up and arrange disposal without creating dust. Product absorbs liquid and forms gels. To absorb spilled substance an approved industrial vacuum cleaner is recommended. Pack and label wastes like the pure substance. Do not detach label from the delivery containers prior to disposal. Clean contaminated surface thoroughly.
- 6.4 Reference to other sections:** For personal protection see section 8. For disposal considerations see section 13.

SECTION 7: Handling and storage:
7.1 Precautions for safe handling
Technical measures (e.g. Local and general ventilation):

Minimize dust generation and accumulation. Please note: National regulations.

Safe handling advice:

Handle in accordance with good industrial hygiene and safety practice. For personal protection see section 8. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Use breathing apparatus when transferring large quantities without exhaust ventilation facilities. Avoid generation and spreading of dust. Fine dust may form explosive mixture in air. Take precautionary measures against static discharges. Provide adequate ventilation. Further Information see section 6.

Contact avoidance measures:

see Precautions for safe handling.

7.2 Conditions for safe storage, including any incompatibilities
Safe storage conditions:

 Store in accordance with local/regional/national regulations. see also section 15. Average temperature for loose bulk storage over 3 m³ must not exceed 50°C. Store in a dry place. Protect from moisture. Avoid dust formation. General rules of fire prevention should be observed. Take precautionary measures against static discharges. Observe prohibition against storing together! In order to ensure due transportation, make certain that stacks are of the correct height, containers are securely fastened so as not to fall off, and labelled according to the regulations. In the event of internal transportation, already-opened containers are to be kept closed in order to avoid spillage.

Safe packaging materials:

No data available.

- 7.3 Specific end use(s):** We are unaware of any specific end uses which go beyond the data reported in Section 1.

SECTION 8: Exposure controls/personal protection
8.1 Control Parameters
Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
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Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

professional, or local agencies, for further information.
None of the components have assigned exposure limits.

Biological Limit Values

Chemical Identity	Parameters / Sampling Time	Exposure Limit Values	Source
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DNEL-Values

Remarks: No information available.

Critical component	Type	Route of Exposure	Health Warnings	Remarks
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PNEC-Values

Remarks: No information available.

Critical component	Environmental compartment	PNEC-Values	Remarks
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8.2 Exposure controls
Appropriate Engineering Controls:

Minimize dust generation and accumulation. Please note: National regulations.

Individual protection measures, such as personal protective equipment
Eye/face protection:

Safety glasses with side shields Please note: National regulations.

Hand Protection:

Material: not required

Skin and Body Protection:

In case product dust is released: suitable protective clothing- Use disposable clothing if appropriate. Select materials and equipment for physical protection depending on the concentration and volume of hazardous substances and the workplace involved. Please note: National regulations.

Respiratory Protection:

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: When handling for a short time: Apply Dust mask. in the event of prolonged exposure during handling: Self-contained breathing apparatus. Note time limit for wearing respiratory protective equipment. Please note: National regulations.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Wash contact areas after handling. Remove soiled clothing immediately. Wash contaminated clothing after use. Do not eat, drink or smoke when using the product. Implement skin protection measures according to skin protection schedule

Environmental Controls:

The environmental regulations on the control and monitoring of environmental exposures are to be observed.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

Appearance

Physical state:	solid
Form:	Powder
Color:	White
Odor:	Odorless, faint inherent odor, possible
Odor Threshold:	No data available.
Melting Point:	Not applicable
Boiling Point:	Not applicable
Flammability:	Not classified as flammable but will burn. Information derived from practical experience.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	Not applicable
Self Ignition Temperature:	The substance or mixture is not classified as pyrophoric. Information is based on the substance structure or composition.
Decomposition Temperature:	> 200 °C Decomposition The substance or mixture is not classified self-reactive. Information is based on the substance structure or composition.
pH:	Approximate 6.0 (1.0 g/l,) in 0.9% NaCl
Viscosity	
Dynamic viscosity:	Not applicable
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Essentially insoluble. Product absorbs liquid and forms gels.
Solubility (other):	No data available.
Dissolution Rate:	No data available.
Partition coefficient (n-octanol/water):	No data available.
Dispersion Stability:	No data available.
Vapor pressure:	Not relevant. (solid)
Relative density:	No data available.
Density:	No data available.
Bulk density:	400 - 800 g/dm ³
Vapor density (air=1):	No data available.

9.2 Other information

Explosive properties:	Not explosive Information is based on the substance structure or composition.
Oxidizing properties:	The substance or mixture is not classified as oxidizing. Information is based on the substance structure or composition.
Burning Rate:	No data available.
Minimum ignition temperature:	No data available.
Self-heating:	The substance or mixture is not classified as self heating. Information derived from practical experience.
Formation of Flammable Gases:	Substance or mixture, which in contact with water, does not

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

Peroxides:	emit flammable gas, Information is based on the substance structure or composition. The substance or mixture is not classified as organic peroxide. Information is based on the substance structure or composition.
Metal Corrosion:	Not corrosive to metals Information is based on the substance structure or composition.
Evaporation Rate:	Not relevant. (solid)
Other physical and chemical parameters:	Dust may form explosive mixture with air.

SECTION 10: Stability and reactivity

10.1 Reactivity:	see section "Possibility of hazardous reactions".
10.2 Chemical Stability:	Stable under usual application conditions.
10.3 Possibility of hazardous reactions:	The product itself is not explosive; however, fine dust may mix with air to product explosive mixtures.
10.4 Conditions to avoid:	Avoid temperatures above 200°C. initial temperature of decomposition Avoid conditions which create dust.
10.5 Incompatible Materials:	No known incompatibility with other materials.
10.6 Hazardous Decomposition Products:	In case of fire hazardous decomposition products may be produced such as: Carbon oxides

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure**

Inhalation:	If handled correctly, not a relevant route of exposure. Information on effects are given below.
Skin Contact:	Relevant route of exposure. Information on effects are given below.
Eye contact:	If handled correctly, not a relevant route of exposure. Information on effects are given below.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.

Acute toxicity (list all possible routes of exposure)**Oral**

Product:	LD 50: > 5,000 mg/kg (OECD 401)
Components: Sodium polyacrylate, cross-linked.	LD 50 (Rat) : > 5,000 mg/kg

Dermal

Product:	LD 50 (Rat): > 2,000 mg/kg (OECD 402) Not toxic after single exposure; Based on available data, the classification criteria are not met.
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Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

Components:Sodium polyacrylate,
cross-linked.LD 50 (Rat) : > 2,000 mg/kg
No classification**Inhalation****Product:**

Not classified for acute toxicity based on available data.

Components:Sodium polyacrylate,
cross-linked.No data available., Dusts, mists and fumes
No data available., Vapour**Repeated dose toxicity****Product:**NOAEL - No Observable Adverse Effect Level (Rat, Oral): 50 g/kg no
evidence for hazardous properties
NOEL (Rat, Inhalation, 5 days/weeks, 6 hours/day): 21.09 mg/m3 no
evidence for hazardous properties**Components:**Sodium polyacrylate,
cross-linked.

No data available.

Skin Corrosion/Irritation**Product:**

Not irritating OECD 404 (Rabbit):

Components:Sodium polyacrylate,
cross-linked.

OECD 404 (Rabbit): Not irritating

Serious Eye Damage/Eye Irritation**Product:**Not irritating OECD 405 (Rabbit): Product dust may cause temporary
mechanical eye irritation.**Components:**Sodium polyacrylate,
cross-linked.

OECD 405 (Rabbit): Not irritating , particle effect

Respiratory or Skin Sensitization**Product:**Skin sensitization:, OECD 406 (Guinea Pig):
sensitizing to the respiratory tract:: No data available.**Components:**Sodium polyacrylate,
cross-linked.Skin sensitization:, OECD 406 (Guinea Pig):
sensitizing to the respiratory tract:: No data available.**Carcinogenicity****Product:**An Expert Judgment stated that no classification is necessary based on
present knowledge.**Components:**Sodium polyacrylate,
cross-linked.

no evidence for hazardous properties

Germ Cell Mutagenicity

An Expert Judgment stated that no classification is necessary based on present knowledge.

In vitro**Product:**gene mutation test (OECD 471): negative;
Genetic mutation in mammal cells TK +/- (OECD 476): negative;
DNA damage and/or repair (OECD 482): negative;**Components:**Sodium polyacrylate,
cross-linked.Ames test (OECD 471): negative
gene mutation test: negative

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

In vivo**Product:** (OECD 474) Oral (Mouse)negative;**Components:** Sodium polyacrylate, cross-linked. Micronucleus test (OECD 474): negative**Reproductive toxicity****Product:** An Expert Judgment stated that no classification is necessary based on present knowledge.**Components:** Sodium polyacrylate, cross-linked. no evidence for hazardous properties**Specific Target Organ Toxicity - Single Exposure****Product:** No data available.**Components:** Sodium polyacrylate, cross-linked. No data available.**Specific Target Organ Toxicity - Repeated Exposure****Product:** Based on available data, the classification criteria are not met. A chronic (2-year) lifetime inhalation study in rats, carried out using micronized dust from a superabsorbent polymer (to obtain completely inhalable particles) revealed a non-specific inflammatory reaction in the lungs. Tumours formed in several animals at the highest chronically administered concentration. (See workplace monitoring / protective equipment, Section 8). Tumours are not to be expected in the absence of chronic inflammation. The study revealed a defined NOEL of 0.05 mg/cbm of micronized dust from superabsorbent polymer.**Components:** Sodium polyacrylate, cross-linked. A chronic (2-year) lifetime inhalation study in rats, carried out using micronized dust from a superabsorbent polymer (to obtain completely inhalable particles) revealed a non-specific inflammatory reaction in the lungs. Tumours formed in several animals at the highest chronically administered concentration. (See workplace monitoring / protective equipment, Section 8). Tumours are not to be expected in the absence of chronic inflammation. The study revealed a defined NOEL of 0.05 mg/cbm of micronized dust from superabsorbent polymer.**Aspiration Hazard****Product:** Not applicable**Components:** Sodium polyacrylate, cross-linked. Not applicable**11.2 Information on other hazards****Other hazards****Product:** The toxicological data given are by analogy 2-year study excluded.;**SECTION 12: Ecological information****12.1 Toxicity:****Acute hazards to the aquatic environment:****Fish****Product:** EC 50 (Zebra danio (Danio rerio), 96 h): 250 mg/l

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

Components:

Sodium polyacrylate,
cross-linked. LC 50 (Leuciscus idus, 96 h): > 5,500 mg/l
LC 50 (Danio rerio, 96 h): > 4,000 mg/l

Aquatic Invertebrates

Product: EC 50 (Daphnia, 48 h): 175 mg/l

Components:

Sodium polyacrylate,
cross-linked. EC 50 (Tetrahymena pyriformis, 48 h): > 6,000 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Components:

Sodium polyacrylate,
cross-linked. No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Sodium polyacrylate,
cross-linked. EC 50 (Pseudomonas putida, 24 h): > 6,000 mg/l

Chronic hazards to the aquatic environment:**Fish**

Product: No data available.

Components:

Sodium polyacrylate,
cross-linked. No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Sodium polyacrylate,
cross-linked. No data available.

Toxicity to Aquatic Plants

Product: NOEC (Alga): < 2 mg/l (OECD 201)

Components:

Sodium polyacrylate,
cross-linked. No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Sodium polyacrylate,
cross-linked. EC 50 (Pseudomonas putida, 24 h): > 6,000 mg/l

12.2 Persistence and Degradability**Biodegradation**

Product: Not readily degradable. According to OECD Directive.

Components:

Sodium polyacrylate,
cross-linked. Not readily degradable. According to OECD Directive.

BOD/COD Ratio

Product: No data available.

Components:

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

Sodium polyacrylate,
cross-linked. No data available.

12.3 Bioaccumulative potential**Bioconcentration Factor (BCF)**

Product: no evidence for hazardous properties

Components:
Sodium polyacrylate,
cross-linked. No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available.

Components:
Sodium polyacrylate,
cross-linked. No data available.

12.4 Mobility in soil:

Product no evidence for hazardous properties

Components:
Sodium polyacrylate, cross-
linked. No data available.

12.5 Results of PBT and vPvB assessment:

Product Non-classified PBT substance Non-classified vPvB substance

Components:
Sodium polyacrylate, cross-
linked. Non-classified vPvB substance
Non-classified PBT substance

12.6 Other adverse effects:**Other hazards**

Product: The ecological data given was inferred through conclusion by analogy.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

General information: Pack and label wastes like the pure substance. Do not detach label from the delivery containers prior to disposal.

Disposal methods: Dispose of in accordance with local regulations. No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

Contaminated Packaging: Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

SECTION 14: Transport information

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

14.1 UN/ID No.

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****EU Regulations****EU. REACH Annex XIV, Substances Subject to Authorization:** None present or none present in regulated quantities.**EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):** None present or none present in regulated quantities.**EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended:** None present or none present in regulated quantities.**Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances:** None present or none present in regulated quantities.**Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances:** None present or none present in regulated quantities.**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended:** None present or none present in regulated quantities.**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended:** None present or none present in regulated quantities.**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended:** None present or none present in regulated quantities.**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended:** None present or none present in regulated quantities.**EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:** Not applicable**National Regulations**

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

All national and local regulations have to be followed. It must be determined whether preventive substance-specific occupational medical examinations in accordance with national law in each case must be offered / carried out at regular intervals.

Please note Directive 92/85/EEC (Pregnant Workers Directive) and amendments. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Regulation (EC) No. 649/2012 Import and export of dangerous chemicals To be observed Please comply with EU Directive 2004/37/EU (Cancer Directive) and relevant amendments.

Comply with restrictions according to Annex XVII of the REACH Directive (1907/2006).

Please note Directive 94/33/EC (Protection of Young Workers at the Workplace Directive) and amendments.

15.2 Chemical safety assessment: No substance-related safety assessment is necessary / has been conducted for this product.

SECTION 16: Other information
Abbreviations and acronyms:

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; **ADN** - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; **AGW** - Occupational exposure limit; **ASTM** - American Society for Testing and Materials; **AwSV** - Ordinance on facilities for handling substances that are hazardous to water; **BSB** - Biochemical oxygen demand; **c.c.** - closed cup; **CAS** - Chemical Abstract Services; **CESIO** - European Committee of Organic Surfactants and their Intermediates; **CSB** - Chemical oxygen demand; **DMEL** - Derived minimum effect level; **DNEL** - Derived no effect level; **EbC50** - median concentration in terms of reduction of growth; **EC** - Effective concentration; **EINECS** - European Inventory of Existing Commercial Chemical Substances; **EN** - European norm; **ErC50** - median concentration in terms of reduction of growth rate; **GGVSEB** - German ordinance for road, rail and inland waterway transportation of dangerous goods; **GGVSee** - German ordinance for sea transportation of dangerous goods; **GLP** - Good Laboratory Practice; **GMO** - Genetic Modified Organism; **IATA** - International Air Transport Association; **ICAO** - International Civil Aviation Organization; **IMDG** - International Maritime Dangerous Goods; **ISO** - International Organization For Standardization; **LD/LC** - lethal dosis/concentration; **LOAEL** - Lowest observed adverse effect level; **LOEL** - Lowest observed effect level; **M-Factor** - multiplying factor; **NOAEL** - No observed adverse effect level; **NOEC** - no observed effect concentration; **NOEL** - no observed effect level; **o.c.** - open cup; **OECD** - Organisation for Economic Cooperation and Development; **OEL** - Occupational Exposure Limit; **PBT** - Persistent, bioaccumulative, toxic; **PNEC** - Predicted no effect concentration; **REACH** - REACH registration; **RID** - Convention concerning International Carriage by Rail; **SVHC** - Substances of Very High Concern; **TA** - Technical Instructions; **TRGS** - Technical Rules for Hazardous Substances; **vPvB** - very persistent, very bioaccumulative; **WGK** - Water Hazard Class

Notes:

Sodium polyacrylate, cross-linked.	Not applicable	Not applicable
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Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3

: none

Training information: Comply with national laws regulating employee instruction.

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 Article 31, Annex II as amended

Revision Information**Disclaimer:**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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