

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ActivePower Pearl MicroPulver PLUS

Revision date: 28.09.2018

Product code: 4742

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

1.1. Product identifier

ActivePower Pearl MicroPulver PLUS

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

Use of the substance/mixture

cleaning agent

1.3. Details of the supplier of the safety data sheet

Company name: Ehrle GmbH
Street: Industriestraße 3
Place: D-89165 Dietenheim
Telephone: 07303-1600 0
e-mail: r.ehrle@ehrle.com
Contact person: Reiner Ehrle
Internet: www.ehrle.com
Responsible Department: Deutschland Notrufnummer: 07303 160 016 bzw 0162 292 7680
Österreich Notrufnummer : 08232 903 035701 bzw 0684 964 5011
Schweiz Notrufnummer : 071 353 5050 bzw. 079 334 8080
Polen Notrufnummer : 091 814 5555 bzw 0509 882 554

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes serious eye damage.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Alkohole, C9-11-Iso-, C10-reich, ethoxyliert (Polymer)

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Signal word: Danger

Pictograms:



Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Additional advice on labelling

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

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2.3. Other hazards

Prolonged exposure causes local irritation of skin and mucous membranes, especially to the eyes.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
497-19-8	Sodium carbonate			35 - < 40 %
	207-838-8	011-005-00-2	01-2119485498-19	
	Eye Irrit. 2; H319			
78330-20-8	Alkohole, C9-11-Iso-, C10-reich, ethoxyliert (Polymer)			5 - < 10 %
	Eye Dam. 1; H318			
18662-53-8	Trisodium nitrilotriacetate monohydrate			1 - < 5 %
	225-768-6	607-620-00-6	01-2119519239-36	
	Carc. 2, Acute Tox. 4, Eye Irrit. 2; H351 H302 H319			
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide			1 - < 5 %
	932-051-8		01-2119565122-48	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

If symptoms persist, call a doctor. Take off contaminated clothing and wash it before reuse.

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

Do not induce vomiting. Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: carbon dioxide (CO₂), nitrogen oxides (NO_x), Phosphorus oxides.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Avoid subsoil penetration.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Clear contaminated areas thoroughly.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep away from heat. Protect from moisture.

Advice on storage compatibility

No special measures are necessary.

Further information on storage conditions

Materials to avoid acids.

7.3. Specific end use(s)

Autoreinigung und Pflege. Für den Einsatz in Micropulver-Dosieranlagen

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
497-19-8	Sodium carbonate		
Worker DNEL, long-term	inhalation	local	10 mg/m ³
Consumer DNEL, acute	inhalation	local	10 mg/m ³
18662-53-8	Trisodium nitrilotriacetate monohydrate		
Worker DNEL, acute	inhalation	systemic	5,25 mg/m ³
Worker DNEL, long-term	inhalation	systemic	3,5 mg/m ³
Consumer DNEL, acute	inhalation	systemic	1,75 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	0,5 mg/m ³
Consumer DNEL, acute	oral	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,3 mg/kg bw/day
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide		
Worker DNEL, long-term	dermal	systemic	85 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	6 mg/m ³
Consumer DNEL, long-term	dermal	systemic	42,5 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,5 mg/m ³
Consumer DNEL, long-term	oral	systemic	0,425 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment	Value	
18662-53-8	Trisodium nitrilotriacetate monohydrate	
Freshwater	0,93 mg/l	
Freshwater (intermittent releases)	0,915 mg/l	
Marine water	0,093 mg/l	
Freshwater sediment	3,64 mg/kg	
Marine sediment	0,364 mg/kg	
Secondary poisoning	0,2 mg/kg	
Micro-organisms in sewage treatment plants (STP)	540 mg/l	
Soil	0,182 mg/kg	
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	
Freshwater	0,268 mg/l	
Freshwater (intermittent releases)	0,055 mg/l	
Marine water	0,0268 mg/l	
Freshwater sediment	8,1 mg/kg	
Marine sediment	8,1 mg/kg	
Micro-organisms in sewage treatment plants (STP)	5,6 mg/l	
Soil	35 mg/kg	

Additional advice on limit values

Contains no substances with occupational exposure limit values.

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The lists that were valid during the compilation were used as basis.

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable material: Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber).

Recommended glove articles Butoject (898), Camatril Profi (729) der Fa. KCL

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Suitable respiratory protection apparatus: Particle filter device (DIN EN 143)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	light red
Odour:	characteristic

	Test method
pH-Value (at 25 °C):	11,3 10 g/l H ₂ O

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not applicable
Flash point:	not applicable

Flammability

Solid:	not determined
Gas:	not applicable

Explosive properties

not applicable

Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	not applicable

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Auto-ignition temperature

Solid: not determined
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapour pressure: not determined

Vapour pressure: not determined

Density: 0,6 g/cm³

Bulk density: approx. 600 kg/m³

Water solubility: easily soluble

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Flow time: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

Do not mix with acids.

10.6. Hazardous decomposition products

Non-flammable. In case of fire may be liberated: carbon dioxide (CO₂), nitrogen oxides (NO_x), Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
497-19-8	Sodium carbonate				
	oral	LD50 2800 mg/kg	Rat	Echa	
	dermal	LD50 > 2000 mg/kg	Rabbit	Echa	
18662-53-8	Trisodium nitrilotriacetate monohydrate				
	oral	LD50 1740 mg/kg	Rat	OECD 401	
	dermal	LD50 > 2000 mg/kg	Rabbit	OECD 402	
	inhalative (4 h) vapour	LC50 > 4,25 mg/l	Rat	OECD 403	
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide				
	oral	LD50 2000 - 5000 mg/kg	rat		OECD 401
	dermal	LD50 >2000 mg/kg	rat		OECD 402

Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
497-19-8	Sodium carbonate					
	Acute fish toxicity	LC50 300 mg/l	96 h	Lepomis macrochirus (Bluegill)	Echa	
	Acute crustacea toxicity	EC50 200 - 227 mg/l	48 h	Ceriodaphnia dubia (water flea)	Echa	
78330-20-8	Alkohole, C9-11-Iso-, C10-reich, ethoxyliert (Polymer)					
	Acute fish toxicity	LC50 10-100 mg/l	96 h	Leuciscus idus (Goldorfe)		
	Acute crustacea toxicity	EC50 10-100 mg/l	48 h	Daphnia magna		
18662-53-8	Trisodium nitrilotriacetate monohydrate					
	Acute fish toxicity	LC50 114 mg/l	96 h	Pimephales promelas (fathead minnow)	APHA 1971, Durchfluß	
	Acute algae toxicity	ErC50 > 91,5 mg/l	72 h	Scenedesmus subspicatus	Richtlinie 92/69/EWG	
	Acute crustacea toxicity	EC50 98 mg/l	48 h	Gammarus sp.		
	Fish toxicity	NOEC 54 mg/l	229 d	Pimephales promelas (fathead minnow)	US-EPA 72-5	
	Algea toxicity	NOEC 1,43 mg/l	3 d	Desmodesmus subspicatus	OECD 201	
	Crustacea toxicity	NOEC 100 mg/l	21 d	Daphnia magna (Water flea)		
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide					
	Acute fish toxicity	LC50 >1- 10 mg/l	96 h	Cyprinus carpio (Carp)		OECD 203
	Acute algae toxicity	ErC50 >10 - 100 mg/l	72 h	Scenedesmus subspicatus		OECD 201
	Acute crustacea toxicity	EC50 >1- 10 mg/l	48 h	Daphnia magna (Water flea)		OECD 202
	Fish toxicity	NOEC >0,1 - 1 mg/l	72 d	Oncorhynchus mykiss (rainbow trout)		
	Crustacea toxicity	NOEC >1 - 10 mg/l	21 d	Daphnia magna (Water flea)		OECD 211
	Acute bacteria toxicity	(63 mg/l)		17h, Pseudomonas putida		ISO 10712

12.2. Persistence and degradability

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
18662-53-8	Trisodium nitrilotriacetate monohydrate			
	Biodegradation	100%		
	Readily biodegradable (according to OECD criteria).			
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide			
	OECD 301A	>70 %	28	
	Readily biodegradable.			

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12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
18662-53-8	Trisodium nitrilotriacetate monohydrate	-31,2 - -2,62

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

Clean container with water. Dispose of rinse water in accordance with local and national regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

- 14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

- 14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number: No dangerous good in sense of this transport regulation.

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14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

2010/75/EU (VOC): 0,342 % (2,053 g/l)

2004/42/EC (VOC): 0,441 % (2,647 g/l)

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 2 - clearly water contaminating

Additional information

Hergestellt nach den Kriterien der Ö-Norm B 5105

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Sodium carbonate

Trisodium nitrilotriacetate monohydrate

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s):

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Eye Dam. 1; H318	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)