Avenarius-Agro GmbH 4600 Wels, Industriestraße 51 FN FN103435K/LG Wels, DVR 0036382 Telefon: +43(0)7242/489-0, Fax +43(0)7242-489-5719 ARA: Abfallentpflichtung Nr. 1405

Internet: www.avenariusagro.at E-Mail: office@avenariusagro.at ISO 9001 zertifiziert



Leistungserklärung gemäß Anhang III der Verordnung (EU) Nr. 305/2011 Bauproduktenverordnung

Produktbezeichnung

Kenncode des Produkttyps DoP Nr.

Verwendungszweck

Hersteller

System(e) zur Bewertung und Überprüfung der Leistungsbeständigkeit

Harmonisierte Norm

Notifizierte Stelle

Erklärte Leistung

Ravenit Elastic 2

46450/V.0005

Beschichtung für den Schutz und die Instandsetzung von Betontragwerken, Oberflächenschutzsystem für Beton. Schutz gegen das Eindringen von Stoffen (1.3); Regulierung des Feuchtehaushaltes (2.2); Erhöhung des elektrischen Widerstandes (8.2).

Avenarius-Agro GmbH 4600 Wels, Industriestraße 51

System 2+ (für Verwendungszwecke in Gebäuden und ingenieurtechnischen Bauwerken) System 3 (für Verwendungszwecke, die Vorschriften zum Brandverhalten unterliegen)

EN 1504-2:2004

Wien-Zert, Kennnummer 1139; Firelabs, Kennnummer 1507

EN 1504-2:2004 ZA.1D				
Wesentliche Merkmale	Leistung	harmonisierte technische Spezifikation		
Lineares Schrumpfen (sofern zutreffend)	NPD	EN 1504-2:2004		
Wärmeausdehnungskoeffizient (sofern zutreffend)	NPD	EN 1504-2:2004		
Gitterschnitt (sofern zutreffend)	NPD	EN 1504-2:2004		
CO2 Durchlässigkeit SD	≥ 50m	EN 1504-2:2004		
Wasserdampfdurchlässigkeit	≤ 5m	EN 1504-2:2004		
Kapillare Wasseraufnahme und Wasser-Durchlässigkeit	≤ 0,1 kg*m-2*h-0,5	EN 1504-2:2004		
Temperaturwechselverträglichk eit (sofern zutreffend)	NPD	EN 1504-2:2004		
Widerstandsfähigkeit gegen Temperaturschock (sofern zutreffend)	NPD	EN 1504-2:2004		
Widerstandsfähigkeit gegen Chemikalien (sofern zutreffend)	NPD	EN 1504-2:2004		
Rissüberbrückungsfähigkeit (sofern zutreffend)	bei -15 Grad Celsius: ≥ 0,5 mm = Klasse A3	EN 1504-2:2004		
Abreißversuch zur Beurteilung der Haftfestigkeit	≥ 0,8 MPa	EN 1504-2:2004		
Brandverhalten	Euroklasse C – s2, d0	EN 1504-2:2004		
Griffigkeit (sofern zutreffend)	NPD	EN 1504-2:2004		
Künstliche Bewitterung (sofern zutreffend)	NPD	EN 1504-2:2004		
Antistatisches Verhalten (sofern zutreffend)	NPD	EN 1504-2:2004		
Haftfestigkeit auf nassem Beton (sofern zutreffend)	NPD	EN 1504-2:2004		
Gefährliche Stoffe	Übereinstimmung mit 5.3	EN 1504-2:2004		

EN 1504-2:2004 ZA.1E					
Wesentliche Merkmale	Leistung	harmonisierte technische Spezifikation			
Lineares Schrumpfen (sofern zutreffend)	NPD	EN 1504-2:2004			
Wärmeausdehnungskoeffizient (sofern zutreffend)	NPD	EN 1504-2:2004			
Gitterschnitt (sofern zutreffend)	NPD	EN 1504-2:2004			

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ISO 9001 zertifiziert



Wasserdampfdurchlässigkeit	<= 5m	EN 1504-2:2004
Kapillare Wasseraufnahme und	<= 0,1 kg*m-2*h-0,5	EN 1504-2:2004
Wasser-Durchlässigkeit		
Temperaturwechselverträglichk	NPD	EN 1504-2:2004
eit (sofern zutreffend)		
Rissüberbrückungsfähigkeit	bei -15 Grad Celsius: >= 0,5	EN 1504-2:2004
(sofern zutreffend)	mm = Klasse A3	
Abreißversuch zur Beurteilung	>= 0,8 MPa	EN 1504-2:2004
der Haftfestigkeit		
Brandverhalten	Euroklasse C – s2, d0	EN 1504-2:2004
Griffigkeit (sofern zutreffend)	NPD	EN 1504-2:2004
Künstliche Bewitterung (sofern	NPD	EN 1504-2:2004
zutreffend)		
Antistatisches Verhalten	NPD	EN 1504-2:2004
(sofern zutreffend)		
Haftfestigkeit auf nassem	NPD	EN 1504-2:2004
Beton (sofern zutreffend)		
Gefährliche Stoffe	Übereinstimmung mit 5.3	EN 1504-2:2004

Die Leistung von Ravenit Elastic 2 entspricht der Leistung nach obiger Tabelle. Ort: Wels Ausstellungsdatum: 18.12.2015 Dieses Schreiben wurde maschinell erstellt und ist auch ohne Unterschrift gültig. (die Geschäftsleitung)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Ravenit Elastic 2 Teil A

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

1.1 Product identifier

Trade name : Ravenit Elastic 2 Teil A

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

Use of the Sub- : Water-borne coatings

stance/Mixture

Recommended restrictions

on use

: within adequate application - none

1.3 Details of the supplier of the safety data sheet

Company : Avenarius-Agro GmbH

Industriestraße 51

4600 Wels

Telephone : +4372424890 Telefax : +437242489449

Website

E-mail address Responsi-

ble/issuing person

sdb@avenariusagro.at

1.4 Emergency telephone

Emergency telephone 1 : Vergiftungsinformationszentrale Österreich 01 406 43 43

#### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

#### 2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Hazard pictograms :

 $\langle ! \rangle$ 

Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.

Precautionary Statements : Prevention:

P261 Avoid breathing mist or vapors.

P262 Do not get in eyes, on skin, or on clothing. P280 Wear protective gloves/ eye protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and

water.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

#### Hazardous ingredients which must be listed on the label:

2-methylisothiazol-3(2H)-one reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Components

Componento			
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Ravenit	Elastic 2 Teil	Α		
Version	Revision Date:	SDS Number:	Date of last issue: -	
1.0	22.11.2023	6023472	Date of first issue: 22.11.2023	

bronopol (INN)	52-51-7 200-143-0 603-085-00-8 01-2119980938-15	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 0,025 - < 0,1
2-methylisothiazol-3(2H)-one	2682-20-4 220-239-6 613-326-00-9 01-2120764690-50	Acute Tox. 2; H330 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1  specific concentration limit Skin Sens. 1A; H317 >= 0,0015 %	>= 0,0025 - < 0,025
pyrithione zinc	13463-41-7 236-671-3 613-333-00-7 01-2119511196-46	Acute Tox. 3; H301 Acute Tox. 2; H330 Eye Dam. 1; H318 Repr. 1B; H360D STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,0025 - < 0,025

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Ravenit	Elastic 2 Teil	Δ		
Version 1.0	Revision Date: 22.11.2023	SDS	S Number: 3472	Date of last issue: - Date of first issue: 22.11.2023
methyl	n mass of 5-chloro-2- -2H-isothiazol-3-one of the control of the c	and 2-	55965-84-9 613-167-00-5 01-212076469	M-Factor (Acute aquatic toxicity): 1.000 M-Factor (Chronic aquatic toxicity): 10  Acute toxicity estimate  Acute oral toxicity: 221 mg/kg Acute inhalation toxicity (dust/mist): 0,14 mg/l  Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100  Specific concentration limit Skin Corr. 1C; H314 >= 0,6 % Skin Irrit. 2; H315 0,06 - < 0,6 % Eye Irrit. 2; H319 0,06 - < 0,6 % Skin Sens. 1A; H317 >= 0,0015 % Eye Dam. 1; H318 >= 0,6 %

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

General advice : Never give anything by mouth to an unconscious person.

If you feel unwell, seek medical advice (show the label where

possible).

Move out of dangerous area. First aider needs to protect himself.

If inhaled : Move to fresh air.

In case of skin contact : Do NOT use solvents or thinners.

In case of contact, immediately flush skin with soap and plenty

of water.

In case of eye contact : If eye irritation persists: Get medical advice/ attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

If swallowed : Seek medical advice.

Clean mouth with water and drink afterwards plenty of water.

If swallowed, DO NOT induce vomiting.

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

Risks : May cause an allergic skin reaction.

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

Treatment : No information available.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Do not use a solid water stream as it may scatter and spread

fire.

Unsuitable extinguishing

media

None known.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

In case of fire hazardous decomposition products may be

produced such as:

Carbon monoxide, carbon dioxide and unburned hydrocar-

bons (smoke).

5.3 Advice for firefighters

for fire-fighters

Special protective equipment : Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information Standard procedure for chemical fires.

The product itself does not burn.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use protective shoes or boots with rough rubber sole.

> Material can create slippery conditions. Do not get in eyes, on skin, or on clothing.

6.2 Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Do not flush into surface water or sanitary sewer system.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up Keep in suitable, closed containers for disposal.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

## 6.4 Reference to other sections

For further information see Section 7 of the safety data sheet.

, For personal protection see section 8., For disposal considerations see section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling For personal protection see section 8.

No special technical protective measures required.

The current technical information on www.avenariusagro.at

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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must be observed.

Hygiene measures : Wash hands before eating, drinking, or smoking. Do not eat,

drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating

areas.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Perishable if frozen. To maintain product quality, do not store in heat or direct sunlight. Store at room temperature in the original container. Containers which are opened must be care-

fully resealed and kept upright to prevent leakage.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline

materials.

7.3 Specific end use(s)

Specific use(s) : This information is not available.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
reaction mass of 5- chloro-2-methyl- 2H-isothiazol-3- one and 2-methyl- 2H-isothiazol-3- one (3:1)	55965-84-9	MAK-TMW	0,05 mg/m3	AT OEL
Further information: Danger of sensitization of the skin				

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of expo- sure	Potential health effects	Value
bronopol (INN)	Consumers	Skin contact	Acute systemic effects	4,20 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	1,40 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	3,70 mg/m3
	Consumers	Skin contact	Long-term local ef- fects	8,00 µg/cm2
	Consumers	Ingestion	Acute systemic ef-	1,10 mg/kg

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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			fects	bw/day
	Consumers	Skin contact	Acute local effects	8,00 µg/cm2
	Consumers	Inhalation	Long-term systemic effects	1,20 mg/m3
	Consumers	Inhalation	Acute local effects	1,30 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	1,30 mg/m3
	Consumers	Ingestion	Long-term systemic effects	0,35 mg/kg bw/day
	Workers	Inhalation	Acute systemic ef- fects	12,30 mg/m3
	Workers	Inhalation	Acute local effects	4,20 mg/m3
	Workers	Inhalation	Long-term systemic effects	4,10 mg/m3
	Workers	Inhalation	Long-term local ef- fects	4,20 mg/m3
	Workers	Skin contact	Acute systemic ef- fects	7,00 mg/kg bw/day
	Workers	Skin contact	Acute local effects	13,00 µg/cm2
	Workers	Skin contact	Long-term systemic effects	2,30 mg/kg bw/day
	Workers	Skin contact	Long-term local ef- fects	13,00 µg/cm2
pyrithione zinc	Workers	Skin contact	Long-term systemic effects	0,01 mg/kg bw/day

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

		<u> </u>
Substance name	Environmental Compartment	Value
bronopol (INN)	Sea sediment	0,00328 mg/kg
		dry weight (d.w.)
	Fresh water sediment	0,041 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	0,43 mg/l
	Soil	0,5 mg/kg dry
		weight (d.w.)
	Intermittent use/release	0,0025 mg/l
	Sea water	0,0008 mg/l
	Fresh water	0,01 mg/l
pyrithione zinc	Sea sediment	0,0095 mg/kg dry
		weight (d.w.)
	Fresh water sediment	0,0095 mg/kg dry
		weight (d.w.)
	Soil	1,02 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	0,01 mg/l

## 8.2 Exposure controls

## Personal protective equipment

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Eye/face protection : Goggles

Hand protection

Material : Nitrile rubber Glove thickness : 0,2 mm Protective index : Class 3

Remarks : Before removing gloves clean them with soap and water.

Wear suitable gloves tested to EN374.

Skin and body protection : Safety shoes

Long sleeved clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Skin should be washed after contact.

Remove and wash contaminated clothing before re-use.

During spray application: impervious clothing

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

During spray application: Do not breathe spray dust. Use

A2/P2 combination filter for paint spraying.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Color : white

Odor : No data available

Melting point/freezing point : ca. 0 °C

Boiling point/boiling range : ca. 100 °C

Upper explosion limit / Upper

flammability limit

not determined

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Lower explosion limit / Lower :

flammability limit

not determined

Flash point : Not applicable

Autoignition temperature : not determined

Decomposition temperature : Not applicable

pH : 8-9

Concentration: 100 %

Viscosity

Viscosity, dynamic : No data available

Solubility(ies)

Water solubility : completely miscible

Partition coefficient: n-

octanol/water

Not applicable

Vapor pressure : ca. 23,4 hPa (20 °C)

Relative density : not determined

Density : 1,0400 g/cm3

Relative vapor density : Not applicable

9.2 Other information

Explosives : Not applicable

Oxidizing properties : Not applicable

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Flammability (liquids) : The product is not flammable.

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

## 10.2 Chemical stability

No decomposition if stored and applied as directed.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

## 10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

#### 10.5 Incompatible materials

Materials to avoid : Incompatible with acids and bases.

Incompatible with oxidizing agents.

## 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## **Acute toxicity**

Not classified based on available information.

#### **Components:**

## bronopol (INN):

Acute oral toxicity : LD50 Oral (Rat): 305 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

## 2-methylisothiazol-3(2H)-one:

Acute oral toxicity : LD50 (Rat): 120 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,145 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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pyrithione zinc:

Acute oral toxicity : Acute toxicity estimate: 221 mg/kg

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: 0,14 mg/l

Test atmosphere: dust/mist

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

(3:1):

Acute oral toxicity : LD50 (Rat): 66 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 0,17 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 141 mg/kg

Method: OECD Test Guideline 402

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

## pyrithione zinc:

Assessment : Risk of serious damage to eyes.

## Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

## Respiratory sensitization

Not classified based on available information.

## Germ cell mutagenicity

Not classified based on available information.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

**Aspiration toxicity** 

Not classified based on available information.

11.2 Information on other hazards

**Endocrine disrupting properties** 

**Product:** 

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

#### **SECTION 12: Ecological information**

## 12.1 Toxicity

#### **Components:**

bronopol (INN):

M-Factor (Acute aquatic tox- : 1

icity)

M-Factor (Chronic aquatic : 1

toxicity)

2-methylisothiazol-3(2H)-one:

M-Factor (Acute aquatic tox- : 10

icity)

M-Factor (Chronic aquatic

toxicity)

: 1

pyrithione zinc:

M-Factor (Acute aquatic tox- : 1.000

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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icity)

M-Factor (Chronic aquatic : 10

toxicity)

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

(3:1):

M-Factor (Acute aquatic tox- : 100

icity)

M-Factor (Chronic aquatic

toxicity)

100

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

**Components:** 

bronopol (INN):

Partition coefficient: n- : log Pow: 0,15 (23 °C)

octanol/water pH: 4,9

2-methylisothiazol-3(2H)-one:

Partition coefficient: n- : log Pow: -0,486 (25 °C)

octanol/water pH: 7

pyrithione zinc:

Partition coefficient: n- : log Pow: 0,9 (25 °C)

octanol/water pH: 7,5 - 7,7

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

(3:1):

Partition coefficient: n- : log Pow:  $\leq 0.75$ 

octanol/water Method: OECD Test Guideline 117

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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0.1% or higher.

#### 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

#### 12.7 Other adverse effects

#### **Product:**

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Materials and all related packaging must be disposed of in a

safe way in accordance with the full requirements of the local,

regional, national and international authorities.

Waste should not be disposed of via wastewater.

Contaminated packaging : Only completely emptied containers should be given for recy-

cling.

Waste Code : used product

080112, waste paint and varnish other than those mentioned

in 08 01 11\*

## **SECTION 14: Transport information**

## 14.1 UN number or ID number

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

#### 14.2 UN proper shipping name

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

#### 14.4 Packing group

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regu-

lations.

## 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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) Conditions of restriction for the following entries should be considered: Number on list 3

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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pyrithione zinc (Number on list 30) formaldehyde (Number on list 72,

28)

REACH - Candidate List of Substances of Very High

Concern for Authorization (Article 59).

This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be gener-

ated.

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

: None

Fire Hazard Class : Exempt

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving

dangerous substances.

Not applicable

Water hazard class (Germa-

ny)

: WGK 2 obviously hazardous to water

Classification according to AwSV, Annex 1 (5.2)

: BSW20 Coating materials, water-based

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: < 0,01 %

Volatile organic compounds : Directive 2004/42/EC

< 0.1 % < 1 g/l

#### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H310 : Fatal in contact with skin.
H311 : Toxic in contact with skin.
H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

H330 : Fatal if inhaled.

H335 : May cause respiratory irritation. H360D : May damage the unborn child.

H372 : Causes damage to organs through prolonged or repeated

exposure.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

EUH071 : Corrosive to the respiratory tract.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage Repr. : Reproductive toxicity Skin Corr. : Skin corrosion Skin Irrit. : Skin sensitization : Skin sensitization

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure

AT OEL : Austria. Limit values regulation - Annex I: Substance list

AT OEL / MAK-TMW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELX - Loading rate associated with x% response; EMS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Coivil Aviation Organization; IECSC - Inventry of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Subst

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

#### Other information:

No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC.

Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

#### Sources of key data used to compile the Material Safety Data Sheet:

ECHA WebSite

ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs.

Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation. 2014 ACGIH, Cincinnati OH

NIOSH - Registry of toxic effects of chemical substances

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance)

Toxnet - Toxicology Data Network

#### Classification of the mixture:

Classification procedure:

Skin Sens. 1 H317 Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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#### **REACH Information**

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly.

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

1.1 Product identifier

Trade name : Ravenit Elastic 2 Teil B

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

Use of the Sub- : Cement

stance/Mixture

Recommended restrictions

on use

: within adequate application - none

1.3 Details of the supplier of the safety data sheet

Company : Avenarius-Agro GmbH

Industriestraße 51

4600 Wels

Telephone : +4372424890 Telefax : +437242489449

Website

E-mail address Responsi-

ble/issuing person

sdb@avenariusagro.at

1.4 Emergency telephone

Emergency telephone 1 : Vergiftungsinformationszentrale Österreich 01 406 43 43

#### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

## 2.2 Label elements

#### Labeling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Hazard pictograms :





Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.

H318 Causes serious eye damage.H335 May cause respiratory irritation.

Precautionary Statements : Prevention:

P260 Do not breathe dusts or mists.
P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/ doctor.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

## Hazardous ingredients which must be listed on the label:

Cement, portland, chemicals calcium sulfoaluminate clinker Flue dust, portland cement

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The product contains chromate reducers, as a result of which the water-soluble chromium (VI) content is less than 0,0002%. In the event of incorrect storage (ingress of moisture) or overlong storage, the chromate reducers contained in the product can lose their efficacy and a sensitising effect of the cement / binding agent may occur in the event of contact with the skin (H317 or EUH203).

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Cement, portland, chemicals	65997-15-1 266-043-4	Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	>= 20 - < 30
calcium sulfoaluminate clinker	Not Assigned 934-133-9	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 1 - < 3
Flue dust, portland cement	68475-76-3 270-659-9 01-2119486767-17	Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	>= 1 - < 3
Substances with a workplace exposure limit :			
Quartz (SiO2)	14808-60-7 238-878-4 01-2120770509-45		>= 30 - < 50

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

General advice : Move out of dangerous area.

First aider needs to protect himself.

Never give anything by mouth to an unconscious person.

If inhaled : If symptoms persist, call a physician.

If breathed in, move person into fresh air.

In case of skin contact : If symptoms persist, call a physician.

Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes.

In case of eye contact : If eye irritation persists: Get medical advice/ attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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rinsing.

If swallowed : Seek medical advice.

Clean mouth with water and drink afterwards plenty of water.

If swallowed, DO NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Eye contact with the powder (dry or wet) may cause serious

and potentially irreversible injuries.

The powder (combined with perspiration) can form an alkaline

solution. That may cause skin irritation.

Causes skin irritation.

Causes serious eye damage. May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Show this material safety data sheet to the doctor in attend-

ance.

**SECTION 5: Firefighting measures** 

5.1 Extinguishing media

Suitable extinguishing media : Not combustible.

Do not use a solid water stream as it may scatter and spread

fire.

Unsuitable extinguishing

media

Not applicable

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

Even diluted mixed products containing cement can cause

irritation.

Aqueous cement suspensions have an alkaline effect.

5.3 Advice for firefighters

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

The product itself does not burn.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.

Avoid dust formation.

6.2 Environmental precautions

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

Do not flush into surface water or sanitary sewer system.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled product while avoiding dust formation and dis-

pose of it as described in Section 13.

Prevent dust from forming and collect any dust mechanically.

## 6.4 Reference to other sections

For personal protection see section 8., For further information see Section 7 of the safety data sheet. , For disposal considerations see section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.

Even diluted mixed products containing cement can cause

irritation.

Avoid contact with skin and eyes.

Avoid creating dust.

The current technical information on www.avenariusagro.at

must be observed.

Advice on protection against :

fire and explosion

The product is not flammable.

Hygiene measures : Wash hands before eating, drinking, or smoking. Do not eat,

drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating

areas.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Observe label precautions. Keep in a dry, cool place.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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areas and containers

Advice on common storage : Never allow product to get in contact with water during stor-

age.

Do not store together with acids and ammonium salts.

Further information on stor-

age stability

Aqueous cement suspensions have an alkaline effect.

7.3 Specific end use(s)

Specific use(s) : This information is not available.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Quartz (SiO2)	14808-60-7	MAK-TMW (Alveolar dust fraction)	0,05 mg/m3	AT OEL
		TWA (Respirable dust)	0,1 mg/m3	2004/37/EC
	Further information: Carcinogens or mutagens			
Cement, portland, chemicals	65997-15-1	MAK-TMW (in- halable dust)	5 mg/m3	AT OEL
Flue dust, portland cement	68475-76-3	MAK-TMW (in- halable dust)	5 mg/m3	AT OEL

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of expo- sure	Potential health effects	Value
Flue dust, portland cement	Consumers	Inhalation	Acute local effects	4,00 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	1,00 mg/m3
	Workers	Inhalation	Acute local effects	4,00 mg/m3
	Workers	Inhalation	Long-term local ef- fects	1,00 mg/m3

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
glass, oxide, chemicals	Fresh water sediment	174 mg/kg dry weight (d.w.)
	Secondary Poisoning	10,9 mg/kg food
	Sea water	3,4 µg/l

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	Sewage treatment plant	100 μg/l
	Sea sediment	164 mg/kg dry weight (d.w.)
	Soil	147 mg/kg dry weight (d.w.)
	Fresh water	6,5 μg/l
Flue dust, portland cement	Sea water	3 μg/l
	Fresh water sediment	875
	Sea sediment	88
	Intermittent use/release	282 μg/l
	Soil	5 mg/kg dry weight (d.w.)
	Fresh water	28 μg/l
	Sewage treatment plant	6 mg/l

#### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : If dust develops or there is a danger of splashing, use protec-

tive goggles with side protection.

Goggles

Hand protection

Material : nitrile coated cotton gloves

Break through time : > 480 min Glove thickness : 0,8 mm Protective index : Class 6

Remarks : Keep a spare pair of gloves handy. If the chemical has

soaked through to the skin, the gloves must be removed and

disposed.

Skin and body protection : Remove and wash contaminated clothing before re-use.

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Safety shoes

Long sleeved clothing

Skin should be washed after contact.

Respiratory protection : Do not breathe dust.

Breathing apparatus only if aerosol or dust is formed.

Filter type : Half mask with a particle filter P2 (EN 143)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

Physical state : powder

Color : white

Odor : cement-like

Odor Threshold : Not relevant

Melting point/freezing point : Not applicable

Boiling point/boiling range : Not applicable

Flammability : The product is not flammable.

Upper explosion limit / Upper

flammability limit

not determined

Lower explosion limit / Lower :

flammability limit

not determined

Flash point : Not applicable

Autoignition temperature : not determined

Decomposition temperature : Not applicable

pH : 11 - 13

Concentration: 10 % in contact with water

Viscosity

Viscosity, dynamic : Not applicable

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

: not determined

Vapor pressure : not determined

Relative density : not determined

Relative vapor density : not determined

9.2 Other information

Explosives : Not applicable

Oxidizing properties : Not applicable

Self-ignition : Not applicable

Evaporation rate : Not applicable

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Exposure to air or moisture over prolonged periods.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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10.5 Incompatible materials

Materials to avoid : humid air and water

Aluminum Acids

Ammonium salts

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

Not classified based on available information.

#### Skin corrosion/irritation

Causes skin irritation.

**Product:** 

Result : Skin irritation

## Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

## Respiratory sensitization

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

## Reproductive toxicity

Not classified based on available information.

#### STOT-single exposure

May cause respiratory irritation.

#### STOT-repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

## 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

#### 12.7 Other adverse effects

## Product:

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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#### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

Product : Can be landfilled after concentration, when in compliance with

local regulations.

Waste should not be disposed of via wastewater.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

Waste Code : used product

170904, mixed construction and demolition wastes other than

those mentioned in 17 09 01, 17 09 02 and 17 09 03

unused product

170903\*, other construction and demolition wastes (including

mixed wastes) containing dangerous substances

## **SECTION 14: Transport information**

## 14.1 UN number or ID number

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good

IATA : UN 3335

14.2 UN proper shipping name

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good

**IATA** : Aviation regulated solid, n.o.s.

(Cement, portland, chemicals, calcium sulfoaluminate clinker)

14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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**IMDG** : Not regulated as a dangerous good

Class Subsidiary risks

**IATA** : 9

14.4 Packing group

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good

IATA (Cargo)

Packing instruction (cargo : 956

aircraft)

Packing instruction (LQ) : Y956
Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passen: :

ger aircraft)

Packing instruction (LQ) : Y956
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good

956

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 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

REACH - Restrictions on the manufacture, placing on : Not applicable

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorization (Article 59).

This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be gener-

ated.

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

: None

Fire Hazard Class : n.a.: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water hazard class (Germa-

ny)

WGK 1 slightly water endangering

Classification according to AwSV, Annex 1 (5.2)

: ZP1 Products containing cement, low in chromate

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

Volatile organic compounds : Directive 2004/42/EC

< 1 % < 10 g/l

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H335 : May cause respiratory irritation.

#### Full text of other abbreviations

Eye Dam. : Serious eye damage

Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitization

STOT SE : Specific target organ toxicity - single exposure

2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers

from the risks related to exposure to carcinogens or mutagens

at work

AT OEL : Austria. Limit values regulation - Annex I: Substance list

2004/37/EC / TWA : Long term exposure limit AT OEL / MAK-TMW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AlIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EMS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KEC1 - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persi

#### **Further information**

#### Other information:

No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC.

Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

#### Sources of key data used to compile the Material Safety Data Sheet:

ECHA WebSite

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs. Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation. 2014 ACGIH, Cincinnati OH

NIOSH - Registry of toxic effects of chemical substances

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,

Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance)

Toxnet - Toxicology Data Network

#### Classification of the mixture:

#### Classification procedure:

Skin Irrit. 2	H315	Based on product data or assessment
Eye Dam. 1	H318	Based on product data or assessment
STOT SE 3	H335	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### **REACH Information**

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly.

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