

FLAMRO DSB-W

Revision date: 19.02.2019

Product code: 00150-0005

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

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

Structural fire protection

1.3. Details of the supplier of the safety data sheet

Company name: FLAMRO Brandschutz-Systeme GmbH
Street: Am Sportplatz 2
Place: D-56291 Leiningen
Telephone: +49 (0) 6746 9410-0 Telefax: +49 (0) 6746 9410-10
e-mail: info@flamro.de
Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone

INTERNATIONAL: +49 (0) 6132 / 84463 (GBK GmbH, Ingelheim)
NATIONAL: In England and Wales: 111, In Scotland: 111

number:**Further Information**

License number: Z-19.11-2014

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:
Respiratory or skin sensitisation: Skin Sens. 1A
Hazardous to the aquatic environment: Aquatic Chronic 3
Hazard Statements:
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

2-methyl-2H-isothiazol-3-one

Signal word: Warning**Pictograms:****Hazard statements**

H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves and eye/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.



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Additional advice on labelling

The product is labeled in accordance with Regulation (EC) no. 1272/2008 (GHS).

2.3. Other hazards

Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Complex mixture based on: aqueous plastic dispersion having an inorganic filler and flame retardants.

Contains: film preservation material

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
2682-20-4	2-methyl-2H-isothiazol-3-one			< 0.1 %
	220-239-6		01-2120764690-50	
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 1); H330 H311 H301 H314 H318 H317 H400 H410 EUH071			
886-50-0	Terbutryn			< 0,025 %
	212-950-5			
	Acute Tox. 4, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 100), Aquatic Chronic 1 (M-Factor = 100); H302 H317 H400 H410			

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

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated clothes and wash before re-use.

After inhalation

Take affected person into fresh air. Consult a physician.

After contact with skin

In case of contact with skin wash off immediately with plenty of water.

After contact with eyes

Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials.

Rinse thoroughly with plenty of water, also under the eyelids.

If eye irritation persists, consult a specialist.

After ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Consult a physician.

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

Not known.

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

Treat symptoms.



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SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Product itself does not burn.

Use fire fighting measures that suit the environment and products stored.

5.2. Special hazards arising from the substance or mixture

carbon monoxide and carbon dioxide

5.3. Advice for firefighters

In case of fire, wear suitable respiratory equipment with positive air supply.

Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes, skin or mucous membrane.

6.2. Environmental precautions

Do not discharge large amounts into the drains or bodies of water.

6.3. Methods and material for containment and cleaning up

Pick up mechanically, avoiding dust, and provide disposal in suitable recipients.

6.4. Reference to other sections

Information for disposal see section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

No special measures necessary if used correctly.

Advice on protection against fire and explosion

No special precautions required.

Further information on handling

Take the usual precautions when handling with chemicals.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Hints on joint storage

No special storage conditions required.

Further information on storage conditions

Keep from freezing. Aqueous composition

7.3. Specific end use(s)

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SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1317-65-3	Calcium carbonate, respirable	-	4		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1317-65-3	calcium carbonate			
Worker DNEL, long-term		inhalation	systemic	10 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	10 mg/m ³
Consumer DNEL, acute		dermal	systemic	6,1 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	6,1 mg/kg bw/day

PNEC values

CAS No	Substance	Value
1317-65-3	calcium carbonate	
Micro-organisms in sewage treatment plants (STP)		100 mg/l

8.2. Exposure controls



Appropriate engineering controls

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Protective and hygiene measures

Take the usual precautions when handling with chemicals.
Wash hands before breaks and at the end of workday.
When using do not eat, drink or smoke.

Eye/face protection

Tightly fitting goggles (EN 166).

Hand protection

Chemical-resistant gloves (EN 374). Safety gloves for the site (EN420, Cat. 1 or 2).
Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration.

Skin protection

Protective clothing

Respiratory protection

Not required under normal use.



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

Physical state: Putties
 Colour: White-grey
 Odour: Odourless

Test method

pH-Value: approx. 8

Changes in the physical state

Melting point: Not determined
 Initial boiling point and boiling range: Not determined
 Sublimation point: Not determined
 Softening point: Not determined
 Flash point: Not applicable
 Sustaining combustion: Not sustaining combustion

Flammability

Solid: Not applicable

Explosive properties

The product is not explosive. Aqueous composition

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

Auto-ignition temperature

Solid: Not applicable

Oxidizing properties

normally flammable, Construction material class: DIN 4102-B2

Vapour pressure: Not applicable
 Density (at 20 °C): 1,35 - 1,60 g/cm³
 Water solubility: Completely miscible
 Partition coefficient: Not applicable
 Viscosity / dynamic: Viscous
 Viscosity / kinematic: Not applicable
 Flow time: Not applicable

9.2. Other information

Non-volatile components: 70,0 - 80,0 % (DIN EN ISO 3251, 3h, 105°C)
 Mass loss by heating: 29,0 % \leq MVdE \leq 39,0% (400°C, 0,5h)
 Foam factor: 5,6 - 7,8 (400°C, 0,5h, ca. 4,0 mm thick dried samples)
 Expansion pressure: 0,4 - 1,0 N/mm² (process A, 350°C, ca. 4,0 mm thick dried samples)

SECTION 10: Stability and reactivity**10.1. Reactivity**

No data available



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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoidTo avoid thermal decomposition, do not overheat.
Keep from freezing.**10.5. Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

Health injuries are not known or expected under normal use.

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2682-20-4	2-methyl-2H-isothiazol-3-one				
	oral	ATE 100 mg/kg			
	dermal	ATE 300 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			
886-50-0	Terbutryn				
	oral	LD50 2050 mg/kg	Rat		
	dermal	LD50 10200 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 > 8 mg/l	Rat		

Irritation and corrosivity

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

Contact with eyes may cause irritation. Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials.

Sensitising effects

May cause an allergic skin reaction. (2-methyl-2H-isothiazol-3-one; Terbutryn)

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Carcinogenic/mutagenic/toxic effects for reproduction

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



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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.

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available.

12.2. Persistence and degradability

Not determined

12.3. Bioaccumulative potential

Not determined

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
886-50-0	Terbutryn	Kow = 3,74

12.4. Mobility in soil

Negligible

12.5. Results of PBT and vPvB assessment

Not determined

12.6. Other adverse effects

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information

Do not flush into surface water or sanitary sewer system.
Hazardous water pollutant.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not discharge into the drains/surface waters/ground water. The waste code number must be agreed with the disposer / manufacturer / competent authority. Waste disposal according to local regulations.

Waste disposal number of waste from residues/unused products

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

Contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

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.



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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.

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 dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 0%

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

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Update 2019



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Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (Agreement concerning the international carriage of Dangerous goods by Road);
IMDG-Code: International Maritime Code for Dangerous Goods;
ICAO: International Civil Aviation Organisation (IATA: The International Air Transport Association);
GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals;
EINECS: European Inventory of Existing Commercial Chemical Substances;
ELINCS: European List of Notified Chemical Substances;
CAS-Nr.: Chemical Abstracts Service;
LC50: Lethal concentration, 50%;
LD50: Lethal dose, 50%.

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

Classification	Classification procedure
Skin Sens. 1A; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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

