

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006,  
Regulation (EU) No 2015/830,  
Regulation (EC) No 1272/2008



## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

#### 1.1 Product identifier

Trade name : Fire retardant intumescent water-based paint Stabiterm-217.  
Chemical name : Not applicable.  
CAS-No : Not applicable.  
EC-No : Not applicable.  
Registration number : Not applicable.

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

Use of the Substance/ : Use as fire retardant paint.

Mixture

#### 1.3 Details of the supplier of the safety data sheet

Company : LLC NPF Fire protection engineering laboratory  
Avtozavodskoye shosse (Avtozavodskoye Highway), 51,  
Dzerzhinsk, Nizhniy Novgorod region, Russia, 606000

Telephone : +7(8313)23-00-11

E-mail address : info@stabiterm.ru

Only representative : Not applicable.

Telephone : Not applicable.

E-mail address : Not applicable.

#### 1.4 Emergency telephone number

**Austria:** Poison Control Centre, Tel.: (+43)-1-406-43-43;

**Belgium:** Belgisch Antigifcentrum, Tel.: 070-245-245;

**Croatia:** Poison Control Centre, Tel: (+385)-1-23-48-342;

**Czech Republic:** Toxikologické informační středisko Tel.: (+420)-224-919-293,  
(+420)-224-915-402;

**Denmark:** Poison Control Hotline, Tel.: (+45)-82-12-12-12;

**Estonia:** National emergency telephone number: 112 or Poison information telephone number:  
16662, calling from abroad: (+372) 7943-794;

**Finland:** Poison Information Centre, Tel.: (09)-471-977 (direct) or (09)-4711;

**France:** ORFILA (INRS), Tel.: (+33)-(0)-1-45-42-59-59;

**Hungary:** Az Egészségügyi Toxikológiai Tájékoztató Szolgálat elérhetőségei,  
Tel: (+36)-80-201-199;

**Iceland :** Landspítali - The National University Hospital of Iceland, Tel.: (+354) 543-1000 or 112;

**Latvia:** Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs,  
Tel.: (+371)-67042473;

**Lithuania:** Sveikatos apsaugos ministerijos ekstremalių sveikatai situacijų centras,  
Tel.: (+370)-5-236-20-52;

**Luxembourg:** Belgian Poison Center, Tel.: (+352) 8002-5500;

**Malta:** Mater Dei Hospital, Tel: 2545-0000;

**Kingdom of Norway:** 113;

**Sweden:** Swedish Poisons Information Centre, Tel.: (+46) 10-456-6700 or 112.

Note: please, consult with your local/national competent authorities for the emergency number in your country.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006,  
Regulation (EU) No 2015/830,  
Regulation (EC) No 1272/2008



## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

Eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity – Single Exposure, Category 3	H335: May cause respiratory irritation.
Specific target organ toxicity – Repeated Exposure, Category 2	H373: May cause damage to organs (urinary bladder) through prolonged or repeated exposure (oral).
Aquatic Chronic, Category 3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

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

Hazard pictogram (s) :



GHS05: corrosion



GHS07:  
exclamation mark



GHS08: health  
hazard

Signal Word : Danger

Hazard statements :

H318	: Causes serious eye damage.
H335	: May cause respiratory irritation.
H373	: May cause damage to organs (urinary bladder) through prolonged or repeated exposure (oral).
H412	: Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P261	: Avoid breathing mist or spray.
P271	: Use only outdoors or in a well-ventilated area.
P280	: Wear protective gloves, protective clothing, eye protection, face protection.

##### **Response:**

P304+P340+P312	: If INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
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 or doctor.

##### **Storage:**

P403+P233	: Store in a well-ventilated place. Keep container tightly closed.
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All precautionary statements see Section 16.

#### 2.3 Other hazards

This substance/mixture does not meet the PBT/vPvB criteria of REACH Annex XIII.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006,  
Regulation (EU) No 2015/830,  
Regulation (EC) No 1272/2008



## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The product is a mixture within the meaning of the REACH Regulation (1907/2006/EC).  
The following table contains the main constituent at the top.

Chemical Name	Concentration, wt. %	CAS-No	EC-No / Registration number	Index-No	CLP
Polyphosphoric acids, ammonium salts	25	68333-79-9	269-789-9 / Not available	Not available	Eye Irrit. 2, H319
Poly(acrylic acid)	20	9003-01-4	618-347-7 / Not available	Not available	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
1,3,5-Triazine-2,4,6-triamine	15	108-78-1	203-615-4 / Not available	Not available	STOT RE 2, H373 (urinary bladder)
2,2-bis(hydroxymethyl)propane-1,3-diol	15	115-77-5	204-104-9 / Not available	Not available	Not classified
Water	15	7732-18-5	231-791-2 / Not available	Not available	Not classified
Titanium dioxide	10	13463-67-7	236-675-5 / Not available	Not available	Not classified

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Take off contaminated clothing and shoes immediately. Never give anything by mouth to an unconscious person.
- Inhalation : If breathed in, move person into fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.
- Skin contact : In case of contact, immediately flush skin with soap and plenty of water. If symptoms persist, call a physician.
- Eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. Rinse thoroughly with plenty of water. If symptoms persist, call a physician.
- Ingestion : Rinse mouth with water. Consult a physician, if you feel unwell.

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

No data available.

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

No data available.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006,  
Regulation (EU) No 2015/830,  
Regulation (EC) No 1272/2008



## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

Suitable extinguishing media : Use a dry sand, chemical foam or carbon dioxide, foam system (fixed mechanical foam extinguishing installation or foam fire extinguisher), fire blanket, noble gas.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards : Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

### 5.3 Advice fire fighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Refer to protective measures listed in sections 7 and 8. Evacuate personnel to safe areas. Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Avoid breath vapours.

### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment.

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

#### Suspension:

Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations.

#### Powder:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Clean contaminated surface thoroughly.

### 6.4 Reference to other sections

See Section 7, 8, 11, 12 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Avoid contact with skin and eyes. Avoid breath vapours. Do not carry cloths that have come into contact with the product in your clothing. Handle with care.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006,  
Regulation (EU) No 2015/830,  
Regulation (EC) No 1272/2008



## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Keep away from heat and sources of ignition.

### 7.2 Conditions for safe storage including any incompatibilities

Requirements for storage : Keep locked up or in an area accessible only to qualified or authorized persons. Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Suspension:

Store in plastic buckets (18 dm<sup>3</sup>).

Powder:

Store in bags (12 kg).

Further information on storage : Avoid release moisture. Avoid heat (above 40 °C). Avoid low storage conditions (lower 5 °C).

Advice on common storage : Keep away from food, drink and animal feeding stuffs. Do not store near acids and bases.

Storage period : 12 months.

Storage temperature : 5 – 40 °C

### 7.3 Specific end use(s)

No data available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components	CAS-No	Control parameters	Basis	Country
Titanium dioxide	13463-67-7	STEL: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	BGBI.I Nr 51/2011	Austria
Titanium dioxide	13463-67-7	TWA: 10 mg/m <sup>3</sup>	MB 14.3.2002 with addendum	Belgium
Titanium dioxide	13463-67-7	TWA: 10.0 mg/m <sup>3</sup>	Regulation Nr. 13	Bulgaria
Titanium dioxide	13463-67-7	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>	HR-OEL	Croatia
Titanium dioxide	13463-67-7	TWA: 6 mg/m <sup>3</sup>	Statutory Order No 507 17.05.2011 with add.	Denmark
Titanium dioxide	13463-67-7	TWA: 5 mg/m <sup>3</sup>	Reg. No 293	Estonia
Titanium dioxide	13463-67-7	TWA: 10 mg/m <sup>3</sup>	ED 984	France
Titanium dioxide	13463-67-7	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	Presidential Decrees 90/1999 with add., 212/2006, OEL 127/2000	Greece
Titanium dioxide	13463-67-7	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>	S.I. No619 of 2001	Ireland
Titanium dioxide	13463-67-7	TWA: 10 mg/m <sup>3</sup>	Regulation No325 with add.	Latvia
Titanium dioxide	13463-67-7	IPRD: 5 mg/m <sup>3</sup>	Order V-824/A1-389	Lithuania
Titanium dioxide	13463-67-7	NDS: 10.0 mg/m <sup>3</sup>	Dz.U. 2014 Nr. 0, 817 of June 6, 2014	Poland
Titanium dioxide	13463-67-7	VLE-MP: 10 mg/m <sup>3</sup>	NP 1796:2014	Portugal
Titanium dioxide	13463-67-7	STEL: 15 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	Governmental Decision 1218 from 06/09/2006, 1093 from 16/08/2006	Romania

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006,  
Regulation (EU) No 2015/830,  
Regulation (EC) No 1272/2008



## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

Components	CAS-No	Control parameters	Basis	Country
Titanium dioxide	13463-67-7	VLA-ED: 10 mg/m <sup>3</sup>	OEL for Spain, 2015	Spain
Titanium dioxide	13463-67-7	LLV: 5 mg/m <sup>3</sup>	AFS 2005:17	Sweden
Titanium dioxide	13463-67-7	STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>	EH40/2005	The United Kingdom
2,2-bis(hydroxymethyl)propane-1,3-dioll	115-77-5	STEL: 20 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>	EH40/2005	The United Kingdom
2,2-bis(hydroxymethyl)propane-1,3-dioll	115-77-5	TWA: 10 mg/m <sup>3</sup>	ED 984	France
2,2-bis(hydroxymethyl)propane-1,3-dioll	115-77-5	VLA-ED: 10 mg/m <sup>3</sup> VLA-ED: 4 mg/m <sup>3</sup>	OEL for Spain, 2015	Spain
2,2-bis(hydroxymethyl)propane-1,3-dioll	115-77-5	VLE-MP: 10 mg/m <sup>3</sup>	NP 1796:2014	Portugal
2,2-bis(hydroxymethyl)propane-1,3-dioll	115-77-5	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	OEL-value-2014	Finland
2,2-bis(hydroxymethyl)propane-1,3-dioll	115-77-5	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	S.I. No619 of 2001	Ireland
2,2-bis(hydroxymethyl)propane-1,3-dioll	115-77-5	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	Presidential Decrees 90/1999 with add., 212/2006, OEL 127/2000	Greece
2,2-bis(hydroxymethyl)propane-1,3-dioll	115-77-5	TWA: 10 mg/m <sup>3</sup>	MB 14.3.2002 with addendum	Belgium
2,2-bis(hydroxymethyl)propane-1,3-dioll	115-77-5	STEL: 20 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>	HR-OEL	Croatia
2,2-bis(hydroxymethyl)propane-1,3-dioll	115-77-5	IPRD: 5 mg/m <sup>3</sup>	Order V-824/A1-389	Lithuania
2,2-bis(hydroxymethyl)propane-1,3-dioll	115-77-5	LLV: 5 mg/m <sup>3</sup>	AFS 2005:17	Sweden

### **PNEC (Predicted No Effect Concentration)**

#### PNEC aqua – freshwater

Poly(acrylic acid) : 0.003 mg/l  
1,3,5-Triazine-2,4,6-triamine : 0.51 mg/l  
2,2-bis(hydroxymethyl)propane-1,3-dioll : 2 mg/l

#### PNEC aqua – marine water

Poly(acrylic acid) : 0.051 mg/l  
2,2-bis(hydroxymethyl)propane-1,3-dioll : 0.2 mg/l

PNEC aqua – intermittent releases : No data available.

#### PNEC sediment – freshwater

Poly(acrylic acid) : 0.021 mg/kg sediment dw  
1,3,5-Triazine-2,4,6-triamine : 5.5 mg/kg sediment dw

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006,  
Regulation (EU) No 2015/830,  
Regulation (EC) No 1272/2008



## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

### PNEC sediment – marine water

Poly(acrylic acid) : 0.002 mg/kg sediment dw  
1,3,5-Triazine-2,4,6-triamine : 0.55 mg/kg sediment dw

### PNEC soil

Poly(acrylic acid) : 0.003 mg/kg soil dw  
1,3,5-Triazine-2,4,6-triamine : 1.6 mg/kg soil dw

### PNEC STP

Poly(acrylic acid) : 0.9 mg/l  
1,3,5-Triazine-2,4,6-triamine : 200 mg/l  
2,2-bis(hydroxymethyl)propane-1,3-diol : 50 mg/l

### **DNEL (Derived No Effect Level)/DMEL (Derived Minimal Effect Level)**

#### **Worker**

##### Long-term exposure systemic effects, inhalation

Polyphosphoric acids, ammonium salts : 18.06 mg/m<sup>3</sup>  
Poly(acrylic acid) : 1.97 mg/m<sup>3</sup>  
1,3,5-Triazine-2,4,6-triamine : 8.9 mg/m<sup>3</sup>  
2,2-bis(hydroxymethyl)propane-1,3-diol : 11.8 mg/m<sup>3</sup>

##### Acute exposure systemic effects, inhalation

1,3,5-Triazine-2,4,6-triamine : 11 mg/m<sup>3</sup>

##### Long-term exposure systemic effects, dermal:

Poly(acrylic acid) : 384 mg/kg bw/day  
1,3,5-Triazine-2,4,6-triamine : 1 mg/kg bw/day  
2,2-bis(hydroxymethyl)propane-1,3-diol : 10 mg/kg bw/day

##### Acute exposure systemic effects, dermal:

1,3,5-Triazine-2,4,6-triamine : 126 mg/kg bw/day

#### **General population**

##### Long-term exposure systemic effects, inhalation

Polyphosphoric acids, ammonium salts : 4.45 mg/m<sup>3</sup>  
Poly(acrylic acid) : 1.97 mg/m<sup>3</sup>  
1,3,5-Triazine-2,4,6-triamine : 2.2 mg/m<sup>3</sup>  
2,2-bis(hydroxymethyl)propane-1,3-diol : 8.7 mg/m<sup>3</sup>

##### Acute exposure systemic effects, inhalation

1,3,5-Triazine-2,4,6-triamine : 11 mg/m<sup>3</sup>

##### Long-term exposure systemic effects, dermal:

Poly(acrylic acid) : 0.2 mg/kg bw/day  
1,3,5-Triazine-2,4,6-triamine : 6.3 mg/kg bw/day  
2,2-bis(hydroxymethyl)propane-1,3-diol : 5 mg/kg bw/day

##### Acute exposure systemic effects, dermal:

1,3,5-Triazine-2,4,6-triamine : 126 mg/kg bw/day



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006,  
Regulation (EU) No 2015/830,  
Regulation (EC) No 1272/2008



## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

### Long-term exposure systemic effects, oral

Poly(acrylic acid)	:	0.2 mg/kg bw/day
1,3,5-Triazine-2,4,6-triamine	:	0.63 mg/kg bw/day
2,2-bis(hydroxymethyl)propane-1,3-diol	:	5 mg/kg bw/day

## 8.2 Exposure controls

### Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms. Highly effective exhaust ventilation.

### Personal protective equipment

Respiratory protection : Filter respirator ABEK-P.  
In an emergency: gas mask.

Remarks : Use respirators and components tested and approved under appropriate government standards CEN (EU).

Hand protection : Protective gloves (rubber, polyethene).

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Protective goggles.

Remarks : Use equipment for eye protection tested and approved under appropriate government standards such as EN 166 (EU).

Skin and body protection : Protective clothes (cotton), rubber boots.

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

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
General industrial hygiene practice.  
Avoid breath vapours.  
Avoid contact with skin, eyes and clothing.  
When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.  
Follow the skin protection plan.  
Wash contaminated clothing before re-use.

### Environmental exposure controls

No data available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Form	:	Homogeneous suspension / powder.
Colour	:	White or pastel colours.
Odour	:	No data available.



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006,  
Regulation (EU) No 2015/830,  
Regulation (EC) No 1272/2008



## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

Odor threshold	: No data available.
Flash point	: No data available.
Lower explosion limit	: No data available.
Upper explosion limit	: No data available.
Explosive properties	: Non explosive.
Flammability	: Not flammable.
Oxidizing properties	: Non-oxidizing.
Self-ignition temperature	: No data available.
Melting point/range	: No data available.
Boiling point/boiling range	: No data available.
Vapor pressure	: No data available.
Density	: 1.20-1.40 kg/l.
Bulk density	: No data available.
Water solubility	: No data available.
Solubility in other solvents	: No data available.
Miscibility with water (15 °C)	: No data available.
Partition coefficient: n-octanol/water	: No data available.
pH	: No data available.
Viscosity, dynamic	: No data available.
Viscosity, kinematic	: No data available.
Relative vapor density	: No data available.
Evaporation rate	: No data available.
Decomposition temperature	: No data available.

### 9.2 Other information

No data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Moister, low temperature, heat.

### 10.5 Incompatible materials

Materials to avoid : Oxygen, bases, acids.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Absent.

Thermal decomposition : No data available.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006,  
Regulation (EU) No 2015/830,  
Regulation (EC) No 1272/2008



## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

### Acute toxicity

#### Acute oral toxicity

Polyphosphoric acids, ammonium salts : LD<sub>50</sub> (rat): > 2 000 mg/kg  
Titanium dioxide : LD<sub>50</sub> (rat): > 5 000 mg/kg  
Poly(acrylic acid) : LD<sub>50</sub> (rat): 1 500 mg/kg  
1,3,5-Triazine-2,4,6-triamine : LD<sub>50</sub> (rat): 3 160 mg/kg  
2,2-bis(hydroxymethyl)propane-1,3-diol : LD<sub>50</sub> (rat): > 5 110 mg/kg  
ATE<sub>mix</sub> : 7 500 mg/kg

#### Acute inhalation toxicity

Polyphosphoric acids, ammonium salts : LC<sub>50</sub> (rat): > 4.85 mg/l  
Exposure time: 4h  
Titanium dioxide : LC<sub>50</sub> (rat): 5.09 mg/l  
Exposure time: 4h  
Poly(acrylic acid) : LC<sub>50</sub> (rat): > 5.10 mg/l  
Exposure time: 4h  
1,3,5-Triazine-2,4,6-triamine : LC<sub>50</sub> (rat): > 5.190 mg/l  
Exposure time: 4h  
2,2-bis(hydroxymethyl)propane-1,3-diol : LC<sub>50</sub> (rat): > 5.15 mg/l  
Exposure time: 4h

#### Acute dermal toxicity

Poly(acrylic acid) : LD<sub>50</sub> (rabbit): > 2 000 mg/kg  
2,2-bis(hydroxymethyl)propane-1,3-diol : LD<sub>50</sub> (rabbit): > 10 000 mg/kg

#### Acute toxicity (other routes of administration)

No data available.

### Skin corrosion / irritation

Skin irritation : Non-irritating.

### Serious eye damage / eye irritation

Eye irritation : Corrosive.

### Sensitization of the respiratory / skin

Skin sensitization : Non skin sensitizing.

Respiratory sensitization : No data available.

### Mutagenicity

No mutagenic effect.

### Carcinogenicity

No carcinogenic effect.

### Reproductive toxicity

No reproductive effect.

### Teratogenicity

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006,  
Regulation (EU) No 2015/830,  
Regulation (EC) No 1272/2008



## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

No data available.

### Specific target organ toxicity after single exposure

May cause respiratory irritation.

### Specific target organ toxicity after repeated exposure (sub-acute / sub-chronic)

May cause damage to organs (urinary bladder) through prolonged or repeated exposure (oral).

### Repeated dose toxicity: (sub-acute/ sub-chronic)

2,2-bis(hydroxymethyl)propane-1,3-diol	:	NOAEL (sub- chronic; rat): > 962 mg/kg bw/day Route of application: oral Exposure time: 92 – 93 days
Titanium dioxide	:	NOAEL (sub-chronic; rat): > 962 mg/kg bw/day Route of application: oral Exposure time: 92-93 days

### Aspiration hazard

Not applicable.

### Neurological effects

No data available.

### Toxicology, metabolism, distribution

No data available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Toxicity to fish:

Polyphosphoric ammonium salts	acids,	:	LC <sub>50</sub> (Oncorhynchus mykiss): > 100 mg/l Exposure time: 96 h
Poly(acrylic acid)		:	LC <sub>50</sub> (Oncorhynchus mykiss): > 100 mg/l Exposure time: 96 h
1,3,5-Triazine-2,4,6-triamine		:	LC <sub>50</sub> (Oryzias latipes): > 100 mg/l Exposure time: 96 h

#### Toxicity to daphnia and other aquatic invertebrates:

Polyphosphoric ammonium salts	acids,	:	EC <sub>50</sub> (Daphnia magna): > 100 mg/l Exposure time: 48 h
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#### Toxicity to aquatic plants:

Titanium dioxide	:	IC <sub>50</sub> (Pseudokirchneriella subcapitata): > 100 mg/l Exposure time: 72 h
Poly(acrylic acid)	:	IC <sub>50</sub> (Desmodesmus subspicatus): 0.13 mg/l Exposure time: 72 h
1,3,5-Triazine-2,4,6-triamine	:	IC <sub>50</sub> (Pseudokirchneriella subcapitata): > 325 mg/l Exposure time: 72 h
2,2-bis(hydroxymethyl)propane-1,3-diol	:	IC <sub>50</sub> (Pseudokirchneriella subcapitata): > 1000 mg/l Exposure time: 72 h

#### Long-term study fish/daphnia and other aquatic invertebrates/aquatic plants:

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006,  
Regulation (EU) No 2015/830,  
Regulation (EC) No 1272/2008



## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

Titanium dioxide	: NOEC (Oncorhynchus mykiss): $\geq 1.1$ mg/l : Exposure time: 14 days
	: NOEC (Chironomus riparius): $> 100$ mg/l : Exposure time: 28 days
	: NOEC (Pseudokirchneriella subcapitata): $\geq 100$ mg/l : Exposure time: 72 days
Poly(acrylic acid)	: NOEC (Desmodesmus subspicatus): 0.03 mg/l : Exposure time: 72 hours
	: NOEC (Desmodesmus subspicatus): $\geq 5.1$ mg/l : Exposure time: 36 days
1,3,5-Triazine-2,4,6-triamine	: NOEC (Desmodesmus subspicatus): $\geq 11.0$ mg/l : Exposure time: 21 days
2,2-bis(hydroxymethyl)propane-1,3-diol	: NOEC (Pseudokirchneriella subcapitata): $> 1\ 000$ mg/l : Exposure time: 21 days

### 12.2 Persistence and degradability

Biodegradability : No data available.

### 12.3 Bioaccumulation potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT assessment and vPvB

Not PBT and no vPvB.

### 12.6 Other adverse effects

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Advice on disposal and packaging : Disposal:  
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of in a safe way. Do not dispose of together with household waste. Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: TRANSPORT INFORMATION

ADR : Not dangerous goods.

RID : Not dangerous goods.

IATA : Not dangerous goods.

IMDG : Not dangerous goods.

### Special precautions for the user

# SAFETY DATA SHEET

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Regulation (EU) No 2015/830,  
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## Fire retardant intumescent water-based paint Stabiterm-217

Revision Date 05.12.2018

Version 1.0

EU / EN

See Section 6, 7 and 8.

### SECTION 15: REGULATORY INFORMATION

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

Special labelling of certain mixtures : Restricted to professional users.

Seveso Directive : Directive 2012/18/EU does not apply.  
(2012/18/EU)

#### 15.2 CSA

The Chemical Safety Assessment was not undertaken.

### SECTION 16: OTHER INFORMATION

#### Hazard statements:

- H302 : Harmful if swallowed.
- H318 : Causes serious eye irritation.
- H335 : May cause respiratory irritation.
- H373 : May cause damage to organs (urinary bladder) through prolonged or repeated exposure (oral).
- H400 : Very toxic to aquatic life.
- H411 : Toxic to aquatic life with long lasting effects.

#### Precautionary statements:

##### **Prevention:**

- P260 : Do not breathe mist or spray.
- P261 : Avoid breathing mist or spray.
- P271 : Use only outdoors or in a well-ventilated area.
- P273 : Avoid release to the environment.
- P280 : Wear protective gloves, protective clothing, eye protection, face protection.

##### **Response:**

- P304+P340 : If INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+ : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P338
- P310 : Immediately call a POISON CENTER or doctor.
- P312 : Call a POISON CENTER or doctor if you feel unwell.
- P314 : Get medical advice or attention if you feel unwell.

##### **Storage:**

- P403+P233 : Store in a well-ventilated place. Keep container tightly closed.
- P405 : Store locked up.

##### **Disposal:**

- P501 : Dispose of contents and container in accordance with national regulation.

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

**SAFETY DATA SHEET**

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Regulation (EU) No 2015/830,  
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**Fire retardant intumescent water-based paint Stabiterm-217**

Revision Date 05.12.2018

Version 1.0

EU / EN

other materials or in any process, unless specified in the text.