

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

Product form : Mixture  
 Product name : SPRAYFILM® WB3  
 Type of product : Intumescent, water based paint applied by airless spray, brush or roller.  
 Product group : Paints

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

Main use category : Professional use  
 Use of the substance/mixture : Water based intumescent coating for the fire protection of structural steel.

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

Promat SpA  
 Via Provinciale 10  
 24040 Filago - Italia  
 T +39035993737 - F +39035994240  
[roberta.facheris@promat.it](mailto:roberta.facheris@promat.it) - [www.promat.it](http://www.promat.it)

**1.4. Emergency telephone number**

Emergency number : +39035993737  
 During office hours:  
 Mo-Fr: 8.00 a.m. - 5.00 p.m. (MEZ) .

Country	Organisation/Company	Address	Emergency number
UNITED KINGDOM	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
UNITED KINGDOM	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
UNITED KINGDOM	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh	51 Little France Crescent EH16 4SA Edinburgh	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241
UNITED KINGDOM	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)

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

Not classified

**2.2. Label elements**
**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH phrases : EUH210 - Safety data sheet available on request

**2.3. Other hazards**

Adverse physicochemical, human health and environmental effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.  
 Other hazards not contributing to the : Due to the high solid content, eye irritation by mechanical friction is possible.

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according to Regulation (EC) No. 453/2010

classification

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Titanium dioxide.	(CAS No) 13463-67-7 (EC no) 236-675-5	10 - 15	Not classified
Pentaerythritol	(CAS No) 115-77-5 (EC no) 204-104-9	5 - 10	Not classified
Melamine	(CAS No) 108-78-1 (EC no) 203-615-4	< 10	Not classified
2-butoxyethanol	(CAS No) 111-76-2 (EC no) 203-905-0 (EC index no) 603-014-00-0	< 2,5	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Nonylphenol, branched, ethoxylated	(CAS No) 68412-54-4 (EC no) 500-209-1	< 0,5	Aquatic Chronic 3, H412
Poly(oxy-1,2-ethanediyl), a-(nonylphenyl)-w-hydroxy-		< 0,02	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Assure fresh air breathing. If unconscious, place in the recovery position and seek medical advice. If person appears to have difficulty breathing or respiratory irritation, seek medical attention. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Remove contaminated clothing. Wash skin with mild soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Do not rub the eye. Rinse the eye out with plenty of clean water for at least 15 minutes. If eye irritation or inflammation persists, seek medical advice. Due to the high solid content, eye irritation by mechanical friction is possible.
First-aid measures after ingestion	: Rinse mouth thoroughly, drink plenty of water. May cause nausea. Do not induce vomiting, unless specifically requested by medical personnel. Get medical advice/attention.

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

Symptoms/injuries after inhalation	: Acute effects: exposure to dust may cause temporary drying effect and/or mild irritation of the nose, throat and lungs, and may aggravate pre-existing respiratory conditions.
Symptoms/injuries after skin contact	: May produce skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: A small component ( $\leq 2.5\%$ ) of this product is harmful by ingestion. May cause stomach pain, nausea, sickness, diarrhoea.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Fire hazard	: Not flammable.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon oxides (CO, CO <sub>2</sub> ). Ammonia (NH <sub>3</sub> ). Hydrogen cyanide (HCN). Nitrogen oxides (NO <sub>x</sub> ).

#### 5.3. Advice for firefighters

Precautionary measures fire	: Exercise caution when fighting any chemical fire.
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Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire.
Other information	: Do not allow into drains or water courses.

### SECTION 6: Accidental release measures

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

General measures : Avoid contact with skin and eyes. Do not breathe gas, fumes, vapour or spray. Use breathing equipment if fumes or powders are released into the air. Spill area may be slippery.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Do not allow entry to drains, sewers, water courses or soil.

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

Methods for cleaning up : Remove with inert absorbent material (e.g. sand, sawdust, vermiculite, diatomaceous earth, etc.), wipe up and keep in suitable containers for disposal.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

See sections 7, 8 and 11.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Do not taste or swallow. A small component ( $\leq 2.5\%$ ) of this product is harmful by ingestion. May cause stomach pain, nausea, sickness, diarrhoea.

Precautions for safe handling : Spray application of a coating system typically requires respiratory protection to prevent from inhalation of paint aerosols as well as from volatile and non-volatile (e.g. pigments, fillers) paint components, independent from the nature of the coatings system. Spray application requires improved respiratory protection by using at least a combination filter A/P2 or A/P3 or a supplied air system, depending on the extend of spray operation duration of spraying, extend of aerosol formation, etc.). Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing. Wear personal protective equipment.

Handling temperature : 10 - 40 °C

Hygiene measures : Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep only in original container. Keep container closed when not in use. Store in a well-ventilated place. Keep cool. Protect from sunlight. Protect against frost.

Maximum storage period : 10 months

Storage temperature : 10 - 40 °C

#### 7.3. Specific end use(s)

Fire protection in buildings.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

2-butoxyethanol (111-76-2)		
EU	Local name	2-Butoxyethanol
EU	IOELV TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	50 ppm
EU	Notes	Skin
United Kingdom	Local name	2-Butoxyethanol
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	123 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>

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2-butoxyethanol (111-76-2)		
United Kingdom	WEL STEL (ppm)	50 ppm
United Kingdom	Remark (WEL)	Sk, BMGV

Pentaerythritol (115-77-5)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	2 mg/kg bodyweight/day
Acute - systemic effects, inhalation	7 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3,5 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	1 mg/kg bodyweight
Acute - systemic effects, inhalation	1,75 mg/m <sup>3</sup>
Acute - systemic effects, oral	1 mg/kg bodyweight
Long-term - systemic effects, oral	0,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,9 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0,1 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (STP)	
PNEC sewage treatment plant	50 mg/l

Titanium dioxide. (13463-67-7)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	10 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	700 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,127 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC aqua (intermittent, freshwater)	0,61 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1000 mg/kg dwt
PNEC sediment (marine water)	100 mg/kg dwt
PNEC (Soil)	
PNEC soil	100 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	1667 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

Melamine (108-78-1)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	31,6 mg/kg bodyweight/day
Acute - systemic effects, inhalation	21 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	14,4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	8,9 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,63 mg/kg bodyweight/day
Long-term - systemic effects, dermal	6,3 mg/kg bodyweight/day
Long-term - local effects, inhalation	2,2 mg/m <sup>3</sup>
PNEC (Water)	
PNEC aqua (freshwater)	1,8 mg/l
PNEC aqua (marine water)	0,18 mg/l
PNEC aqua (intermittent, freshwater)	2 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1,94 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,57 mg/kg dwt

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### Melamine (108-78-1)

PNEC (Oral)

PNEC oral (secondary poisoning) 7300 mg/kg food

PNEC (STP)

PNEC sewage treatment plant 200 mg/l

### 8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Provide local exhaust or general room ventilation during application and drying.
Hand protection	: Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Wash hands after handling.
Eye protection	: Safety glasses with side shields. Use splash goggles when eye contact due to splashing is possible.
Skin and body protection	: Wear protective waterproof clothing and boots.
Respiratory protection	: Avoid breathing dust, mist or spray. Respiratory equipment required during spraying. See section 7.



Environmental exposure controls	: The product contains low levels of volatile organic compounds (< 4%) or ammonia which may evaporate during application and drying. Avoid release to the environment.
Other information	: When using, do not eat, drink or smoke.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Water based dispersion.
Colour	: white.
Odour	: Mild.
Odour threshold	: No data available
pH	: 7,8 - 8,2
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: 0 °C
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ≈ 1,33 kg/l
Solubility	: Miscible.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

Solid content	: 70 - 74 %
VOC content	: < 4 % (Dir 2004/42/CE - max. VOC - Phase II, cat 1, i, WB: 140 g/l)

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Direct sunlight. Heat.

#### 10.5. Incompatible materials

Oxidizing agent.

#### 10.6. Hazardous decomposition products

At very high temperature: decomposes by releasing irritant gases/vapours. Carbon oxides (CO, CO<sub>2</sub>). Hydrogen cyanide (HCN). Ammonia (NH<sub>3</sub>). Nitrogen oxides (NO<sub>x</sub>).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified  
A small component (<= 2.5 %) of this product is harmful by ingestion. May cause stomach pain, nausea, sickness, diarrhoea.

2-butoxyethanol (111-76-2)	
LD50 dermal rabbit	600 mg/kg
LC50 inhalation rat (mg/l)	2,21 mg/l/4h
Pentaerythritol (115-77-5)	
LD50 oral rat	25500 mg/kg
LD50 dermal rabbit	10000 mg/kg
Titanium dioxide. (13463-67-7)	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	5000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	6,8 mg/l/4h
Melamine (108-78-1)	
LD50 oral rat	3000 mg/kg
LD50 dermal rat	> 1000 mg/kg
LC50 inhalation rat (mg/l)	5,19 mg/l

Skin corrosion/irritation : Not irritant.  
pH: 7,8 - 8,2

Serious eye damage/irritation : Due to the high solid content, eye irritation by mechanical friction is possible.  
pH: 7,8 - 8,2

Respiratory or skin sensitisation : Sensitisation is not expected.

Germ cell mutagenicity : The product does not contain any ingredients in a concentration of equal or higher than 0.1 %, which are classified as mutagen.

Carcinogenicity : Not classified

Reproductive toxicity : The product does not contain any ingredients in a concentration of equal or higher than 0.1 %, which are classified as toxic for reproduction.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Pentaerythritol (115-77-5)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day
NOAEL (subacute, oral, animal/male, 28 days)	1000 mg/kg bodyweight
Titanium dioxide. (13463-67-7)	
NOAEL (inhalation, rat, dust/mist/fume, 90 days)	10 mg/l/6h/day
NOAEL (subchronic, oral, animal/male, 90 days)	3500 mg/kg bodyweight
Aspiration hazard	: Not classified

Other information : Toxicological data for the product are not available.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

<b>Pentaerythritol (115-77-5)</b>	
LC50 fish 1	100,01 mg/l
NOEC chronic crustacea	1000 mg/l
<b>Nonylphenol, branched, ethoxylated (68412-54-4)</b>	
LC50 fish 1	10,1 mg/l
EC50 Daphnia 1	10,1 mg/l
NOEC (chronic)	> mg/l
<b>Titanium dioxide. (13463-67-7)</b>	
LC50 fish 1	100,01 mg/l
EC50 Daphnia 1	100,01 mg/l
LC50 fish 2	1000 mg/l
EC50 Daphnia 2	10000 mg/l
<b>Melamine (108-78-1)</b>	
LC50 fish 1	3000 mg/l
LC50 other aquatic organisms 1	325 mg/l
EC50 Daphnia 1	1000 mg/l
LC50 fish 2	1000 mg/l
EC50 Daphnia 2	32 mg/l
NOEC chronic fish	1000 mg/l
NOEC chronic crustacea	18 mg/l

#### 12.2. Persistence and degradability

<b>Melamine (108-78-1)</b>	
BOD (% of ThOD)	0 % ThOD

#### 12.3. Bioaccumulative potential

<b>2-butoxyethanol (111-76-2)</b>	
Log Pow	0,83
<b>Pentaerythritol (115-77-5)</b>	
Log Pow	-1,7
<b>Melamine (108-78-1)</b>	
Log Kow	-1,22

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Additional information : Do not allow entry to drains, sewers, water courses or soil.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.  
Waste disposal recommendations : Do not allow entry to drains, sewers, water courses or soil.  
European List of Waste (LoW) code : 08 01 11\* - waste paint and varnish containing organic solvents or other dangerous substances

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated for transport				
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

#### - Air transport

No data available

#### - Inland waterway transport

Not subject to ADN : No

#### - Rail transport

Carriage prohibited (RID) : No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : < 4 % (Dir 2004/42/CE - max. VOC - Phase II, cat 1, i, WB: 140 g/l)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Full text of H- and EUH-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects



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EUH210

Safety data sheet available on request

### SDS EU (REACH Annex II)

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