



**Safety Data Sheet**  
**according to Regulation (EC)**  
**No. 2015/830**



## SECTION 1: Identification of the Substance/Mixture and the Company/Undertaking

<b>1.1 Product Identifier</b>	14-00045	<b>Revision Date:</b>	16/06/2020
<b>Product Name:</b>	FIREFILM A6	<b>Supersedes Date:</b>	23/04/2020
		<b>Version Number:</b>	Version 2

**1.2 Relevant identified uses of the substance or mixture and uses advised against** Monocomponent industrial coating - Industrial use.

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

**Manufacturer:** Perlita y Vermiculita, S.L.U.  
C/ Garraf s/n. Polígono Industrial Can Prunera  
08759 Vallirana (Barcelona) España  
Tel. +34 936834400  
Fax. +34 936834401  
info@perlityvermiculita.com  
www.perlityvermiculita.com

**Datasheet Produced by:** Auba, Benito - ehs@stoncor.com

**1.4 Emergency telephone number:** CHEMTREC +1 703 5273887 (Outside US)

## SECTION 2: Hazard Identification

**2.1 Classification of the substance or mixture**

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

**HAZARD STATEMENTS**

Allergic effects

EUH208

**2.2 Label elements****Symbol(s) of Product**

No Hazard Symbols Exist

**Signal Word**

None

**Named Chemicals on Label**

None

**HAZARD STATEMENTS**

Allergic effects	EUH208	Contains mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one [ec no 247-500-7] and 2-methyl-2h-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
------------------	--------	---

**PRECAUTION PHRASES**

P233	Keep container tightly closed.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284a	In case of inadequate ventilation wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

**2.3 Other hazards**

No Information

**Results of PBT and vPvB assessment:**

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

**SECTION 3: Composition/Information On Ingredients****3.2 Mixtures****Hazardous Ingredients**

<u>CAS-No.</u>	<u>EINEC No.</u>	<u>Name According to EEC</u>	<u>%</u>
13463-67-7	236-675-5	titanium dioxide	10 - <25
115-77-5	204-104-9	pentaerythritol	2.5 - <10
1244733-77-4	911-815-4	tris(2-chloroisopropyl) phosphate	2.5 - <10
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one	<0.1

<u>CAS-No.</u>	<u>REACH Reg No.</u>	<u>CLP Symbols</u>	<u>CLP Hazard Statements</u>	<u>M-Factors</u>
13463-67-7	01-2119489379-17			
115-77-5	01-2119473985-20			
1244733-77-4		GHS07	H302	
2634-33-5		GHS05-GHS07-GHS09	H302-315-317-318-400	10

**Additional Information:**

The text for CLP Hazard Statements shown above (if any) is given in Section 16.

## SECTION 4: First-aid Measures

### 4.1 Description of First Aid Measures

**GENERAL NOTES:** No Information

**AFTER INHALATION:** Give oxygen or artificial respiration if needed. Consult a physician after significant exposure. Provide fresh air, rest and warmth.

**AFTER SKIN CONTACT:** If skin irritation persists, call a physician. In case of contact, immediately flush skin with soap and plenty of water.

**AFTER EYE CONTACT:** FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, CONSULT A PHYSICIAN.

**AFTER INGESTION:** Clean mouth with water and drink afterwards plenty of water. Obtain medical attention.

#### Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

No Information

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Fire-fighting Measures

### 5.1 Extinguishing Media:

Alcohol Foam, Carbon Dioxide, Dry Chemical

**FOR SAFETY REASONS NOT TO BE USED:** Alcohol, Alcohol based solutions, any other media not listed above.

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

MAY GENERATE TOXIC OR IRRITATING COMBUSTION PRODUCTS.

### 5.3 Advice for firefighters

Water spray Dry powder Alcohol-resistant foam Carbon dioxide (CO<sub>2</sub>). Collect contaminated fire extinguishing water separately. This must not be discharged into drains. liquid white characteristic Not explosive completely miscible

## SECTION 6: Accidental Release Measures

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

Ensure adequate ventilation.

### 6.2 Environmental precautions

Do not contaminate surface water. Do not allow material to contaminate ground water system. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

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

Absorb residue with suitable chemical absorbent. Clean contaminated floors and objects thoroughly while observing environmental regulations.

### 6.4 Reference to other sections

**FURTHER INSTRUCTIONS:** Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Protect from frost, heat and sunlight. Avoid contact with skin and clothing.  
Avoid contact with skin.

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

**CONDITIONS TO AVOID:** No Information

**STORAGE CONDITIONS:** Store at room temperature in the original container. Store at temperatures not exceeding 25°C. Keep cool. Protect from frost.

### 7.3 Specific end use(s)

No specific advice for **end use** available.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Ingredients with Occupational Exposure Limits (EU)

<u>Name</u>	<u>CAS-No.</u>	<u>LTEL ppm</u>	<u>STEL ppm</u>	<u>STEL mg/m3</u>	<u>LTEL mg/m3</u>
titanium dioxide	13463-67-7				
pentaerythritol	115-77-5				
tris(2-chloroisopropyl) phosphate	1244733-77-4				
1,2-benzisothiazol-3(2H)-one	2634-33-5				

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
titanium dioxide	13463-67-7	
pentaerythritol	115-77-5	
tris(2-chloroisopropyl) phosphate	1244733-77-4	
1,2-benzisothiazol-3(2H)-one	2634-33-5	

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

### 8.2 Exposure controls

#### Personal Protection

**RESPIRATORY PROTECTION:** Breathing apparatus with filter. Half mask with a particle filter P2 (EN 143). Do not breathe dust or spray mist.

**EYE PROTECTION:** Safety goggles. Avoid contact with eyes.

**HAND PROTECTION:** Protective gloves. Rubber or plastic gloves. Nitrile rubber. The exact break through time can be obtained from the protective glove producer and this has to be observed. Fluorinated rubber Lightweight protective clothing

**OTHER PROTECTIVE EQUIPMENT:** LONG SLEEVED WORK CLOTHES, LONG LEGGED PANTS

**ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas.

**Chemical Name:**

titanium dioxide

**EC No.:**

236-675-5

**CAS-No.:**

13463-67-7

**DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							700 mg/kg/ bw/ day
Inhalation			5 mg/m <sup>3</sup>				5 mg/m <sup>3</sup>	
Dermal								

**PNEC's - Predicted no effect concentration**

Environmental protection target	PNEC
Fresh water	0.127 mg/L
Fresh water sediments	1000 mg/kg dw
Marine water	1 mg/L
Marine sediments	100 mg/kg dw
Food chain	1667 mg/kg (oral)
Microorganisms in sewage treatment	100 mg/kg
soil (agricultural)	100 mg/kg dw
Air	

**Chemical Name:**

pentaerythritol

**EC No.:**

204-104-9

**CAS-No.:**

115-77-5

**DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					1 mg/kg bw/d		0.5 mg/kg bw/d
Inhalation		7 mg/m <sup>3</sup>		3.5 mg/m <sup>3</sup>		1.75 mg/m <sup>3</sup>		0.9 mg/m <sup>3</sup>
Dermal		2 mg/kg bw/d		1 mg/kg bw/d		1 mg/kg bw/d		0.5 mg/kg bw/d

**PNEC's - Predicted no effect concentration**

Environmental protection target	PNEC
Fresh water	1 mg/l
Fresh water sediments	
Marine water	0.1 mg/l
Marine sediments	
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	
Air	

**SECTION 9: Physical and Chemical Properties****9.1 Information on basic physical and chemical properties****Appearance:**

White aqueous dispersion

**Physical State**

Liquid

**Odor**

Not determined

**Odor threshold**

Not determined

pH	8.0 -9.5
Melting point / freezing point (°C)	Not determined
Boiling point/range (°C)	100 °C - N.D.
Flash Point, (°C)	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined - Not determined
Vapour Pressure	2.4 hPa
Vapour density	Not determined
Relative density	1.38
Solubility in / Miscibility with water	Totally miscible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not determined
Decomposition temperature (°C)	Not determined
Viscosity	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined

## 9.2 Other information

VOC Content g/l:	0.50
Specific Gravity (g/cm3)	1.380

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No Information

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Reacts with acids, alkalis and oxidising agents.

### 10.4 Conditions to avoid

No Information

### 10.5 Incompatible materials

Oxidizing agents. Acids and bases.

### 10.6 Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity:

Oral LD50:	No information available.
Inhalation LC50:	No information available.

<b>Irritation:</b>	No information available.
<b>Corrosivity:</b>	No information available.
<b>Sensitization:</b>	No information available.
<b>Repeated dose toxicity:</b>	No information available.
<b>Carcinogenicity:</b>	No information available.
<b>Mutagenicity:</b>	No information available.
<b>Toxicity for reproduction:</b>	No information available.
<b>STOT-single exposure:</b>	No information available.
<b>STOT-repeated exposure:</b>	No information available.
<b>Aspiration hazard:</b>	No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested.  
Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>	<u>Gas LC50</u>	<u>Dust/Mist LC50</u>
13463-67-7	titanium dioxide	>5000 mg/kg (oral-rat)	10000 mg/kg	No information	No information	>6.82 mg/L (inh- rat-4h)
115-77-5	pentaerythritol	25500 mg/kg (rat)	>10000 mg/kg (rabbit)	No information	No information	No information

#### Additional Information:

This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This classification is relevant when exposed to titanium dioxide in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

## SECTION 12: Ecological Information

### 12.1 Toxicity:

EC50 48hr (Daphnia):	No information
IC50 72hr (Algae):	No information
LC50 96hr (fish):	No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

12.6 Other adverse effects: No information

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
13463-67-7	titanium dioxide	>1000 mg/L (LC50, statisk, Daphnia magna, OECD202)	>100 mg/L (EC50, statisk, Pseudokirchnerella subcapitata, OECD201)	>1000 mg/L (LC50, statisk, Pimephales promelas, EPA-540/9-85-006)
115-77-5	pentaerythritol	No information	>100 mg/l (EC50, 72h, Desmodemus subspicatus)	>100 mg/l (LC50, 96h, Oryzias latipes)
1244733-77-4	tris(2-chloroisopropyl) phosphate	No information	No information	
2634-33-5	1,2-benzisothiazol-3(2H)-one	1.9 mg/L (LC50, 96h, Mysidopsis bahia)	0.15 mg/L (OECD TG 201, 72h, Skeletonema costatum)	1.9 mg/L (Oncorhynchus mykiss)

### SECTION 13: Disposal Considerations

13.1 **WASTE TREATMENT METHODS:** 080120 - aqueous suspensions containing paint or varnish other than those mentioned in 08 0119. adsorption in inert material (e.g. sand, kieselguhr, acid binder, universal binder, sawdust) 150110 - packaging containing residues of or contaminated by dangerous substances The product should not be allowed to enter drains, water courses or the soil. Dispose of material in accordance with all federal, state and local regulations.

European Waste Code: 080120

Packaging Waste Code: 080120

### SECTION 14: Transport Information

14.1	UN number	Not applicable
14.2	UN proper shipping name	Not regulated for transport according to U.S. DOT, ADR/RID, IMDG, and IATA regulations.
	Technical name	Not applicable
14.3	Transport hazard class(es)	Not applicable
	Subsidiary shipping hazard	Not applicable
14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	Not applicable
	EmS-No.:	Not applicable
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 for the substance or mixture:

**National Regulations:**

Denmark Product Registration Number:	Not available
Danish MAL Code:	Not available
Danish MAL Code - Mixture:	Not available
Sweden Product Registration Number:	Not available
Norway Product Registration Number:	Not available



Germany WGK Class:	3
Directive 2004/42/CE :	Not available
Covered by Directive 2012/18/EC (Seveso III):	Not applicable
Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:	Not applicable

**Annex XIV - Authorisation List:**

CAS-No.      Name According to EEC

Not Applicable

**SVHC - Substances of very high concern (Candidate List):**

CAS-No.      Name According to EEC

Not Applicable

**15.2 Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**SECTION 16: Other Information**

Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

**Reasons for revision**

Substance Regulatory CAS Number Changed  
Substance Hazardous Flag Changed  
Substance Hazard Threshold % Changed  
Substance and/or Product Properties Changed in Section(s):  
01 - Identification  
02 - Hazard Identification  
08 - Exposure Controls/Personal Protection  
09 - Physical and Chemical Properties  
11 - Toxicological Information  
12 - Ecological Information  
Composition Information Changed  
Revision Statement(s) Changed

**List of References:**

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark;  
European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;

European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP); EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

#### Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m <sup>3</sup>	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.