ASTROFLAME
PASSIVE FIRE STOP SYSTEMS

Safety Data Sheet

Astro PFP FR EX Mortar

Revision 4 - 2nd February 2024



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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	:	Astro PFP FR EX Mortar
Product code	:	AFPFPEXMB
Unique formula identifier (UFI)	:	5500-C029-G00E-DGTC

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

Relevant identified uses of the substance or mixture	:	Industrial purposes, Exothermic curing process.
Uses advised against	:	None known.

1.3. Details of the supplier of the safety data sheet

Company name	:	Astroflame (Fireseals) LTD Unit 8 , I.O Centre Stephenson Road Segensworth Fareham PO15 5RU United Kingdom
Tel	:	01329 844 500
Email	:	sales@astroflame.com

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).
See section 4 “First aid measures”.

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Dam. 1; H318, Causes serious eye damage.

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.2. Label elements

Hazard pictogram(s)	:	
Signal word	:	Danger
Hazard statement(s)	:	Causes skin irritation. (H315) May cause an allergic skin reaction. (H317) Causes serious eye damage. (H318)
Precautionary statements	:	
General	:	If medical advice is needed, have product container or label at hand. (P101) Keep out of reach of children. (P102)

2.2. Label elements (continued)

Prevention	:	Avoid breathing dust. (P261) Wash hands and exposed skin thoroughly after handling. (P264) Wear eye protection/protective gloves/protective clothing. (P280)
Response	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338) Immediately call a POISON CENTER/doctor. (P310)
Storage	:	-
Disposal	:	Dispose of contents/container in accordance with local regulation. (P501)
Hazardous substances	:	Cement, portland, chemicals
Additional labelling	:	EUH210, Safety data sheet available on request. The content of water-soluble chromate is less than 2 ppm in dry storage up to 12 months from production date. If stored under moist conditions, chromate reduction may be impaired. UFI: P800-T0NA-A00D-T7PN

2.3. Other hazards

Additional warnings	:	Upon mixing the product with water it will become corrosive. When wet concrete or mortar is trapped against the skin by falling inside a worker's boots or gloves or by soaking through protective clothing—the result may be first, second, or third degree burns. This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Section 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Cement, portland, chemicals	CAS No.: 65997-15-1 EC No.: 266-043-4 UK-REACH: Index No.:	15-25%	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318 STOT SE 3, H335	
Glass Fibres	CAS No.: 65997-17-3 EC No.: 266-046-0 UK-REACH: Index No.:	<0.1%		[1]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information : [1] European occupational exposure limit.

Section 4: First aid measures

4.1. Description of first aid measures

General information	:	In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
Inhalation	:	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
Skin contact	:	Skin in contact with wet cement should be washed immediately with large amounts of cool clean water. If skin irritation occurs: Get medical advice/attention.
Eye contact	:	Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.
Ingestion	:	If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.
Burns	:	Not applicable.

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

Workers using cement may develop an allergy to chromium, with symptoms ranging from a mild rash to severe skin ulcers. In addition to skin reactions, hexavalent chromium can cause occupational asthma. Symptoms include wheezing and difficulty breathing. Workers may develop both skin and respiratory allergies to hexavalent chromium.
Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.
Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.
The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

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

IF exposed or concerned :

Get immediate medical advice/attention.

Information to medics : Bring this safety data sheet or the label from this product.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media	:	Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture	:	Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters. If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are: Sulphur oxides Some metal oxides

5.3. Advice for fire-fighters

Advice for fire-fighters	:	Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Remove flammable materials if conditions allow it. Ensure sufficient ventilation. Avoid direct contact with spilled substances.

6.2. Environmental precautions

Environmental precautions	:	Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up	:	Collect spills carefully. Moist the material with water in order to prevent the formation and propagation of dust. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 “Exposure controls/personal protection” for protective measures.

Section 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 “Exposure controls/personal protection” for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Powder trickling out onto the floor or onto other containers must be prevented.

Recommended storage material	:	Keep only in original packaging.
Storage temperature	:	Dry, cool and well ventilated Protect from moisture. 5 - 30°C
Incompatible materials	:	Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Control parameters	:	Cement, portland, chemicals Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable) Glass Fibres The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).
DNEL	:	No data available.
PNEC	:	No data available.
Glass Fibres	:	

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		6.5 µg/L
Freshwater sediment		174 mg/kg
Marine water		3.4 µg/L
Marine water sediment		164 mg/kg
Predators		10.9 mg/kg
Sewage treatment plant		100 µg/L
Soil		147 mg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations	:	Provide adequate hygiene facilities on site for workers to wash hands and face at the end of a job and before eating, drinking, smoking, or using the toilet. Facilities for cleaning boots and changing clothes should also be available. Clothing contaminated by wet cement should be quickly removed. Skin in contact with wet cement should be washed immediately with large amounts of cool clean water. Smoking, drinking and consumption of food is not allowed in the work area.
Exposure scenarios	:	There are no exposure scenarios implemented for this product.
Exposure limits	:	Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.
Appropriate technical measures	:	Mix dry cement in well-ventilated areas. Work in ways that minimize the amount of cement dust released.
Hygiene measures	:	In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face. Don't wash your hands with water from buckets used for cleaning tools. Take off contaminated clothing and wash it before reuse.
Measures to avoid environmental exposure	:	No specific requirements.

8.2. Exposure controls (continued)

Individual protection measures, such as personal protective equipment

Generally	:	Use only UKCA marked protective equipment.

Respiratory Equipment:

Work situation	Type	Class	Colour	Standards	
In case of inadequate ventilation	S/SL	P2	White	EN149	

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-	

Hand protection:

Material	**Glove thickness (mm)**	**Breakthrough time (min.)**	**Standards**	
Neoprene (Neoprene)	-	> 60	EN374-2, EN374-3, EN388, EN407, EN511	
Nitrile	0,2	> 60	EN374-2, EN374-3, EN388	

Eye protection:

Type	**Standards**	
Safety glasses with side shields.	EN166	

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	:	Powder
Colour	:	White
Odour / Odour threshold	:	None
pH	:	Testing not relevant or not possible due to the nature of the product.
Density (g/cm³):	:	0.05
Kinematic viscosity	:	Does not apply to solids.
Particle characteristics	:	Testing not relevant or not possible due to the nature of the product.
Phase changes		
Melting point/Freezing point (°C)	:	Testing not relevant or not possible due to the nature of the product.
Softening point/range (waxes and pastes) (°C):		Does not apply to solids.
Boiling point (°C)	:	Does not apply to solids.
Vapour pressure	:	Testing not relevant or not possible due to the nature of the product.
Relative vapour density	:	Does not apply to solids.
Decomposition temperature (°C)	:	Testing not relevant or not possible due to the nature of the product.

9.1. Information on basic physical and chemical properties (continued)

Data on fire and explosion hazards

Flash point (°C)	:	Does not apply to solids.
Flammability (°C)	:	The material is not combustible.
Auto-ignition temperature (°C)	:	Testing not relevant or not possible due to the nature of the product.
Lower and upper explosion limit (% v/v)	:	Does not apply to solids.

Solubility

Solubility in water	:	Testing not relevant or not possible due to the nature of the product.
n-octanol/water coefficient	:	Testing not relevant or not possible due to the nature of the product.
Solubility in fat (g/L)	:	Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Dust explosion class	:	St0 (No explosion)
VOC (g/L)	:	0
Other physical and chemical parameters	:	No data available.
Oxidizing properties	:	Testing not relevant or not possible due to the nature of the product.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity	:	No data available.

10.2. Chemical stability

Chemical stability	:	The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions

Hazardous reactions	:	None known.

10.4. Conditions to avoid

Conditions to avoid	:	None known.

10.5. Incompatible materials

Incompatible materials	:	Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Haz. decomp. products	:	The product is not degraded when used as specified in section 1.

Section 11: Toxicological information

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

Acute toxicity	:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Causes serious eye damage.
Respiratory sensitisation	:	Based on available data, the classification criteria are not met.
Skin sensitisation	:	May cause an allergic skin reaction.
Germ cell mutagenicity	:	Based on available data, the classification criteria are not met.
Carcinogenicity	:	Based on available data, the classification criteria are not met.
Reproductive toxicity	:	Based on available data, the classification criteria are not met.
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.

11.2. Information on other hazards

Long term effects	:	The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.
Endocrine disrupting properties	:	Not applicable.
Other information	:	None known.

Section 12: Ecological information

12.1. Toxicity

Toxicity	:	No data available.

12.2. Persistence and degradability

Persistence and degradability	:	No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential	:	No data available.

12.4. Mobility in soil

Mobility	:	No data available.

12.5. Results of PBT and vPvB assessment

PBT identification	:	This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	:	Not applicable.

12.7. Other adverse effects

Other adverse effects	:	None known.

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	:	Product is covered by the regulations on hazardous waste. HP 4 - Irritant (skin irritation and eye damage) HP 13 – Sensitising Dispose of contents/container to an approved waste disposal plant. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
EWC code	:	17 08 02 Gypsum-based construction materials other than those mentioned in 17 08 01
Specific labelling	:	Not applicable.
Contaminated packing	:	Packaging containing residues of the product must be disposed of similarly to the product.

Section 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group
** Environmental hazards

Additional information : Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Special precautions for user : Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments : No data available.

Section 15: Regulatory information

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

Restrictions for application	:	People under the age of 18 shall not be exposed to this product.
Demands for specific education	:	No specific requirements.
SEVESO - Categories / dangerous substances	:	Not applicable.
Additional information	:	Not applicable.

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

Sources : The Management of Health and Safety at Work Regulations 1999.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

Chemical safety assessment : No

Section 16: Other information

Other information

Full text of H-phrases as mentioned in section 3 :
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H318, Causes serious eye damage.
H335, May cause respiratory irritation.

Abbreviations and acronyms :
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient

Other information (continued)

Abbreviations and acronyms	:	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SCL = A specific concentration limit SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVBC = Unknown or variable composition, complex reaction products or of biological materials VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative
Additional information	:	The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The safety data sheet is validated by	:	Wol Hluchan
Other	:	A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle. The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products. It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification. Country-language: GB-en

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