

Safety Data Sheet - Great Britain (GB)

Astro HS Compound

Revision 4 - 23rd February 2023



ASTROFLAME   **20Kg**
PASSIVE FIRE STOP SYSTEMS
ASTRO HS COMPOUND
BATCH NO. 20528
PRODUCED:

Product Description:
Astro HS (High-Strength) Compound is a Gypsum based mortar material used to reinstatement the fire resistance performance of floor and wall constructions where apertures exist for the penetrations of multiple services. Astro HS Compound, once cured, has excellent load bearing capabilities and can be installed in large span openings. Astro HS Compound can be installed across a variety of services and substrates including: Rigid Floors, Rigid Walls, Multi-Service penetrations, Blank Openings, load of stairs.

Areas of Use:

- To reinstatement fire resistance through walls and floors
- Multi-Service penetrations
- Loadbearing seals
- Large Span openings
- Prevention of air leakage
- Outstanding Acoustic performance
- Assured working life 25 years
- For internal use

Advantages:

- Large unsupported spans
- No shrinkage
- Easy to mix
- High strength and load bearing properties
- Versatile workability range
- Provides smoke seal.

Astroflame (Fireseals) Ltd.
Stephenson Road, Unit 8,
The I.O Centre, Stephenson Road,
Segensworth, Fareham, PO15 5RU

Manufactured in the UK
Telephone: 01329 844500
Email: sales@astroflame.com
Web: www.astroflame.com



Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Product form** : Mixture**Product Name** : Astro HS Compound**Type of product** : Adhesives, sealants**Product group** : Trade product**Product Code** : AFHSC**1.2. Relevant identified uses of the substance or mixture and uses advised against****Main use category** : Professional use**Industrial/Professional use spec** : For professional use only**Use of substance/Mixture** : Adhesives, sealants**1.2.2. Uses advised against**

No additional information available

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 Number : (0) 44 1329 844500**Email** : sales@astroflame.com**1.4. Emergency telephone number****Tel Number** : (0) 44 1329 844500 Language: English - Office hours 8am to 5:30pm GMT

Call 999 For Emergency. Call 111 For Non-Emergency medical advice.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not classified

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.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Precautionary statements (CLP) :

- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P264 - Wash hands, forearms and face thoroughly after handling.
- P280 - Wear eye protection, protective clothing.

2.3. Other hazards

Other hazards which do not result in classification : Dust formation.

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with UK REACH Annex XIII

Section 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Calcium sulfate	(CAS-No.) 7778-18-9 (EC-No.) 231-900-3	> 80	Not classified
Limestone	(CAS-No.) 471-34-1 (EC-No.) 207-439-9	< 30	Not classified

Comments : Contains <1% Organic Substances

Section 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation** : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get medical advice/attention.
- First-aid measures after skin contact** : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact** : Rinse immediately with plenty of water. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion** : Rinse mouth out with water. Do not induce vomiting.

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

- Symptoms/effects** : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

Section 5: Fire-Fighting measures

5.1. Extinguishing media

- Suitable extinguishing media** : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire** : The product is non-combustible.

5.3. Advice for fire - fighters

- Protection during firefighting** : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protective equipment (PPE).

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

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Avoid dust formation.

Other information : Dispose of in accordance with relevant local regulations.

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

Section 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Dust formation.

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Protect from moisture. Keep container closed when not in use.

7.3. Specific end use(s)

No additional information available

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Section 8: Control parameters/personal protection

8.1. Control parameters

Calcium sulfate (7778-18-9)

United Kingdom - Occupational Exposure Limits

WEL TWA (OEL TWA) [1]	10 mg/m ³ 8 hr
WEL STEL (OEL STEL)	30 mg/m ³

Limestone (471-34-1)

United Kingdom - Occupational Exposure Limits

Local name	Calcium carbonate (Limestone, Marble)
WEL TWA (OEL TWA) [1]	10 mg/m ³ total inhalable 4 mg/m ³ respirable
WEL STEL (OEL STEL)	4 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Dust production: dust mask with filter type P2. Gloves.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Dust mask	Type P2		

Personal protective equipment:



Environmental exposure controls:

Avoid release to the environment.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: white to cream.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: > 1000 °C
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

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

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Limestone (471-34-1)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LC50 Inhalation - Rat	> 3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified

Limestone (471-34-1)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard : Not classified

Astro HS Compound	
Viscosity, kinematic	Not applicable

Section 12: Ecological information

12.1. Toxicity

Ecology - general	:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term: (acute)	:	Not classified
Hazardous to the aquatic environment, short-term: (chronic)	:	Not classified
Not rapidly degradable	:	

Limestone (471-34-1)	
LC50 - Fish [1]	> 10000
EC50 - Crustacea [1]	> 1000
EC50 72h - Algae [1]	> 200 mg/l

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

12.2. Persistence and Degradability

Astro HS Compound

Persistence and degradability	Not established.
-------------------------------	------------------

12.3. Bioaccumulative potential

Astro HS Compound

Bioaccumulative potential	Not established.
---------------------------	------------------

Limestone (471-34-1)

Partition coefficient n-octanol/water (Log Pow)	< 1
---	-----

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

No additional information available

Section 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods** : Dispose of contents/container in accordance with licensed collector’s sorting instructions.
- Product/Packaging disposal recommendations** : Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Section 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol 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. Relevant EU provisions transposed through retained EU law

Contains no UK REACH substances with Annex XVII restrictions

Contains no substance on the UK REACH candidate list

Contains no UK REACH Annex XIV substances that are subject to authorisation:

Contains no substance subject to GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation

Contains no substance subject to Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Section 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

As part of our policy of ongoing improvements, we reserve the right to modify, alter or change product specifications without giving notice. Product illustrations are representations only. All information contained in this document is provided for guidance only, and as ASTROFLAME (FIRE SEALS) LTD has no control over the specific application or installation methods of the products, or of the prevailing site conditions, no warranties expressed or implied are intended to be given as to the actual performance of the products mentioned or referred to, and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given of products mentioned or referred to herein.

The above information to the best of our knowledge is true and accurate and based upon current test data and is supplied for your guidance only. Customers should satisfy themselves to the suitability of the product based on the products limitation of applications and that the product is fit for purpose for their intended use and no guarantee is given or implied since the conditions of actual use are beyond our control. ASTROFLAME (FIRE SEALS) LTD, disclaim any liability for loss, damage or other expense arising from the use of information, data or products mentioned or referred to and reserve the right to change any details or specifications without notice. If you are in any doubt as to the suitability of this product for your intended application please contact our technical team on 01329 844500 or email sales@astroflame.com and we will contact you.