

# Safety Data Sheet

## Astro Intumescent Seals

Revision 4 - 27th April 2021



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

### 1.1 Product identifier

**Product Name** : Astro Intumescent Seals

**Product Code** : AF1004 , AF1504 , AF2004 , AF2504

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

**Use of substance / mixture** : Expands when heated to act as a fire stop. Main application is in fire protection.

### 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

**Fax Number** : (0) 44 1329 844600

**Email** : sales@astroflame.com

### 1.4. Emergency telephone number

## Section 2: Classification of the substance or mixture

### 2.1. Classification of the substance or mixture

**Classification according to Regulation** : The product is not classified according to CLP regulation.  
(EC) No 1272/2008 [CLP/GHS]

**Classification according to Directive** : Not classified.  
67/548/EEC or 1999/45/EC

## 2.2. Label elements

- Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]** : The product has not been classified and marked in accordance with Regulation (EC) No 1272/2008.
- Supplemental hazard information (EU)** : These products contain low bio-persistence mineral fibres
- These products are not hazardous in the form in which they are shipped by the manufacturer.
- However, they may produce low levels of fibre-containing dust as a result of downstream activities such as cutting.
- These products contain graphite which is not recommended for electrical purposes. Note that dust from these products may compromise the integrity of electrical or electronic equipment.

## 2.3. Other hazards

- Other Hazards** : Mild mechanical irritation to skin, eyes and upper respiratory system may result from exposure, however any effects are usually temporary.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

- Mixtures** : These products are made from varying amounts of low bio-persistence mineral fibres, graphite, organic fibres and binders.

## Section 4: First aid measures

### 4.1. Description of first aid measures

- General** : The main hazards arise from downstream activities such as cutting.
- Eye contact** : In case of eye contact, irrigate abundantly with water. Seek medical attention.
- Inhalation** : Avoid breathing dust. If breathing difficulties are experienced whilst cutting, remove to fresh air or a ventilated area and seek medical advice.
- Ingestion** : If small quantities are ingested, seek medical advice.

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

**Symptoms** : No symptoms expected.  
**Effects** : No effects expected.

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

**Notes for Doctor** : None required.  
**Special Treatment** : None required.

**Section 5: Fire-Fighting measures****5.1. Extinguishing media**

**Suitable extinguishing media** : Not flammable  
**Unsuitable extinguishing media** : Not applicable.

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

**Exposure hazards** : None.

**5.3. Advice for fire - fighters**

**Advice for fire - fighters** : None.

**Section 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** : Avoid inhaling dust.  
**Protective equipment** : Protective clothing should be provided for operators along with protective equipment. (shown in Section 8)  
**Emergency procedures** : None required.  
**For emergency responders** : Avoid inhaling dust  
**Personal protective equipment** : Protective clothing should be provided along with protective equipment (shown in section 8)

**6.2. Environmental precautions**

**Environmental** : Remove dust by using a vacuum cleaner fitted with 'H' type filters. Where vacuum cleaning is not possible, dampen down dust and collect whilst still damp. Suitable bags are required for disposal.

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

- For containment** : Dampen down any dust spillages as soon as possible and collect whilst still damp.
- For cleaning up** : Remove dust using vacuum with 'H' type filters and suitable bags for containment.
- Dust should be packaged into impermeable plastic sacks which should be sealed. Such waste should then be disposed of according to local regulations.

### 6.4. Reference to other sections

- Reference to other sections** : Section 7 for Handling and Storage and Section 8 for Protective Equipment.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

- Protective measures** : No special protective measures are normally required
- Advice on safe handling** : Normal safe precautions for handling can be employed.
- Fire prevention** : Products are not flammable.
- Aerosol and dust generation prevention** : Small amounts of dust may be generated if products are allowed to abrade against each other
- Environmental precautions** : No special precautions are required.
- Advice on general occupational hygiene** : Wear protective clothing.

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

- Technical measures and storage conditions** : Both un-cut and cut products should be packed to prevent movement and abrasion during transit and to prevent absorption of water.
- Otherwise normal safe precautions for storage can be used.
- To avoid damage and distortion, store on a smooth level surface, in a fully supported position off the ground and in a dry place.
- Packaging materials** : Card cartons.
- Requirements for storage** : Dry location.
- Storage class** : N/A.
- Materials to avoid** : No special requirements.
- Further information on storage conditions** : N/A.

### 7.3. Specific end use(s)

**Specific end use(s)** : See references to dust hazards during cutting, Section 4.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Control Parameters** : Reference should be made to local and country-specific occupational exposure limits for dust and low bio-persistence mineral fibres.

UK monitoring methods can be found as follows:

MDHS 59 – Machine-made fibres airborne number concentration and classification by phase contrast light microscopy.

NIOSH 0500 – Particulates not otherwise regulated, total.

NIOSH 0600 – Particulates not otherwise regulated, respirable.

NIOSH 7400 – Asbestos and other fibres by PCM.

### 8.2. Exposure Controls

**Exposure Controls** : Fit and use appropriate local exhaust ventilation systems for cutting and machining operations.

Use appropriate personal protective equipment to avoid dust inhalation.

Maintain a clean workspace using a vacuum cleaner.

MEL/OES Low bio-persistence mineral fibres 5 mg/m<sup>3</sup> 8 hr TWA (MEL)

## 9: Information on basic physical and chemical properties

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

**Physical State** : Solid material  
**Appearance** : Rigid sheet  
**Colour** : Grey  
**Odour** : N/A  
**Odour threshold** : N/A  
**pH** : See references to dust hazards during cutting, Section 4.

<b>Boiling point</b>	:	N/A
<b>Flash point</b>	:	N/A
<b>Evaporation rate</b>	:	Grey
<b>Flammability (solid, gas)</b>	:	N/A
<b>Upper/lower flammability or explosive limits</b>	:	N/A
<b>Upper explosive limit</b>	:	N/A
<b>Lower explosive limit</b>	:	N/A
<b>Melting/Freezing Point</b>	:	N/A but see Astroflame Technical Brochure for maximum working temperatures.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** : Stable and non-reactive.

### 10.2. Chemical Stability

**Chemical stability** : Stable and inert.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions** : None.

### 10.4. Conditions to avoid

**Conditions to avoid** : None.

### 10.5. Incompatible materials

**Incompatible Materials** : None.

### 10.6. Hazardous Decomposition Products

**Hazardous Decomposition Products:** None.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicity values** : Exposure is mainly due to low levels of dusts generated during downstream activities such as cutting. Low bio-persistence mineral fibres as used in these products have been developed to be quickly and effectively cleared from lung tissues.

## Symptoms/routes of exposure

### Acute Effects

- Acute Inhalation Toxicity** : Nose and throat irritation  
**Skin Irritation** : Mild irritation.  
**Eye Irritation** : Irritation.

### Chronic Effects

- Respiratory or Skin Sensitisation** : Irritation of both the respiratory tract and skin is by mechanical means and is not the result of an allergic reaction or chemical damage.

## Section 12: Ecological information

### 12.1. Toxicity

- Toxicity** : is insoluble in water and remains stable over time. The major constituents are similar in their chemical composition to naturally occurring materials and minerals.

### 12.2. Persistence and Degradability

- Persistence and degradability** : Not established

### 12.3. Bioaccumulative potential

- Bioaccumulative potential** : Not established.

### 12.4. Mobility in soil

- Mobility in Soil** : No information available.

### 12.5. Results of PBT and vPvB assessment

- PBT identification** : The product do not contain substances that are considered as either PBT or vPvB.

### 12.6. Other adverse effects

- Other adverse effects** : No other additional information available.



## Section 13: Disposal considerations

### 13.1. Waste treatment methods

- Product/Packaging Disposal** : Packaging can be cleaned and recycled.
- Waste Treatment Options** : Waste from the product may be disposed of in landfill according to local regulations.

## Section 14: Transport information

### 14.1. UN Number

- UN Number** : Product is not dangerous according to current transport regulations.

### 14.2. UN Proper Shipping Name

- UN Proper Shipping Name** : N/A

### 14.3. Transport Hazard Class(es)

- Transport Hazard Class(es)** : N/A

### 14.4. Packing Group

- Packing Group** : N/A

### 14.5. Environmental Hazards

- Environmental Hazards** : N/A

### 14.6. Special Precautions for User

- Special Precautions for User** : N/A

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

- Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code** : N/A

## Section 15: Regulatory information

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

- EU Regulations** : Regulation (EC) No 1272/2008, 20th January 2009, on Classification, Labelling and Packaging of Substances and Mixtures (OJL 353).
- The 7th Adaption of Technical Progress (ATP) to Regulation (EC) No 1272/2008 was published on 15th July 2015.
- Worker Protection** : In accordance with the following directives and their amendments:
- Council Directive 89/391/EEC, 12th June 1989 on the Introduction of measures to encourage improvements in the health and safety of workers at work.
- Council Directive 98/24/EC, 7th April 1998 on the Protection of workers from the risks related to chemical agents at work

### 15.2. Chemical safety assessment

- Chemical Safety Assessment** : Available on request

## Section 16: Other information

### 16.1. Indication of Changes

- Indication of Changes** : All sections updated October 2016.

### 16.2. Abbreviations and Acronyms

- Abbreviations and Acronyms** : None used.

### 16.3. Key Literature References and Sources of Data

- Key Literature References and Sources of Data** : See main sections.

### 16.4. Classification for Mixtures and Used Evaluation Method According to Regulation (EC) 1207/2008 [CLP]

- Classification for Mixtures and Used Evaluation Method According to Regulation (EC) 1207/2008 [CLP]** : See Section 2.

#### 16.5. Relevant R-, H- and EUH Phrases (Number and Text)

**Relevant R-, H- and EUH Phrases (Number and Text)** : N/A

#### 16.6. Training Advice

**Training Advice** : See Astroflame Products Technical Brochure for information on use.

#### 16.7. Further Information

**Further Information** : For further information, visit [www.astroflame.com](http://www.astroflame.com)

#### Other information

**Other information** : This safety data sheet is prepared in accordance with Commission Regulation (EU) No453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Legal disclaimer** : The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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