

# Material Safety Data - Fire Stop Block

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## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY.

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### **CHEMICAL PRODUCT Trade Name: Astro FS Block**

USED MAINLY IN FIRE PROTECTION AS A FIRE STOPPER.

COMPANY IDENTIFICATION. ASTROFLAME (Fire Seals) Ltd.

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS.

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### 2.1 CHEMICAL DESCRIPTION.

Exonerated mineral fibre and organic fibre with intercalated graphite and organic binder.

2.2 HAZARDOUS INGREDIENTS - None

## 3. HAZARD IDENTIFICATION.

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- 3.1. Risk phrases none
- 3.2. Over exposure effects none
- 3.3. Over exposure symptoms n/a

## 4. FIRST AID MEASURES.

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### 4.1 EYE CONTACT.

Gentle irrigate with clean water for at least 15 minutes. Move eyeball and keep eyelids wide open and apart whilst irrigating. Obtain medical attention immediately.

### 4.2 SKIN CONTACT.

If possible vacuum excessive dust from clothes as well as skin, hair etc. Wash and clean contaminated skin with soap and clean water.

### 4.3 INGESTION.

It is not normally considered that intumescent products will be ingested, but if small quantities are ingested seek medical advice.

#### 4.4 INHALATION.

Avoid breathing dust. If breathing difficulties experienced whilst machining remove to fresh air and seek medical advice.

#### 4.5. PROTECTION OF FIRST AIDERS

No special protective equipment required

### 5. FIRE FIGHTING MEASURES.

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#### 5.1 EXTINGUISHING MEDIA.

Is not flammable therefore not applicable.

#### 5.2 HAZARDOUS COMBUSTION PRODUCTS.

Not applicable.

#### 5.3. PROTECTION MEASURES.

As in any fire, wear self-contained breathing apparatus and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES.

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#### 6.1 PERSONAL PRECAUTIONS.

Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory protection

#### 6.2 ENVIRONMENTAL PRECAUTIONS.

Prevent further leakage or spillage. See section 12 for additional information.

#### 6.3 CLEANING UP.

Avoid creating dust. Collect dry material by vacuum cleaning. Wear protective clothing stated in section 8.3

### 7. STORAGE AND HANDLING

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#### 7.1 STORAGE.

Both machined and un-machined items should be packed to prevent movement, abrasion during movement and absorption of water. Otherwise normal safe precaution for handling can be employed. To avoid damage and distortion, store on a smooth level foundation.

#### 7.2 RECOMMENDED SHELF LIFE.

Mineral fibre products are chemically stable and their life is no hazard under normal storage conditions

#### 7.3 HANDLING.

A small proportion of personnel may be sensitive to the dust and develop a skin irritation when in contact with it. All machining will create dust, a portion of which may be in the form of respirable fibres. Where the amount of dust produced is likely to exceed the control limit, approved extraction equipment must be used and if this is not adequate, approved dust respirators used in the vicinity.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

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### 8.1 EXPOSURE LIMIT VALUES

Chemical	EC No	CAS No	WEL	OES
Bentonite	215-108-5	1302-78-9	---	5mg/m3 resp. dust
Graphite	235-819-4	744-44-0	10mg/m3 inhalable dust 4mg/m3 resp. dust	

### 8.2 EXPOSURE CONTROLS

#### 8.2.1. OCCUPATIONAL EXPOSURE CONTROLS

##### 8.2.1.1 ENGINEERING CONTROLS

Ensure adequate ventilation, especially in confined spaces

##### 8.2.1.2. RESPIRATORY PROTECTION

Avoid inhalation of dust. Where there is any dust emission and no sufficient ventilation provided, use approved dust mask (filter ffp2)

##### 8.2.1.3. HAND PROTECTION

G loves are recommended

##### 8.2.1.4. EYE PROTECTION

Use approved eye protection whilst machining

##### 8.2.1.5. SKIN PROTECTION

Not applicable, however to aid personal hygiene suitable overalls can be worn

## 9. PHYSICAL / CHEMICAL PROPERTIES.

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### 9.1. GENERAL INFORMATION

9.1.1 APPEARANCE. Solid

9.1.2 ODOUR. N/A

### 9.2. IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

9.2.14. EVAPORATION RATE N/A

9.2.13. VAPOUR PRESSURE N/A

9.2.12. VISCOSITY N/A

9.2.11. PARTITION COEFFICIENT N/A

9.2.10. WATER SOLUBILITY NOT SOLUBLE IN WATER

9.2.9. SOLUBILITY N/A

9.2.8. RELATIVE DENSITY N/A

9.2.7. VAPOUR PRESSURE N/A

9.2.6. OXIDISING PROPERTIES N/A

9.2.5. EXPLOSIVE PROPERTIES N/A

9.2.4. FLAMMABILITY N/A

9.2.3. FLASH POINT N/A

9.2.2. BOILING POINT N/A

9.2.1. PH N/A

## 10. STABILITY AND REACTIVITY.

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### 10.1 STABILITY.

Considered stable under relative high temperatures and pressure. Consult ASTROflame for application suitability before use. If exposed to other chemicals reactivity must be checked before use

10.2 CONDITIONS TO AVOID.  
Incompatible chemicals.

10.3 MATERIALS TO AVOID  
Consult ASTROflame.

10.4 HAZARDOUS DECOMPOSITION PRODUCTS.  
No Special Requirements.

## 11. TOXICOLOGICAL INFORMATION.

### 11.1 SHORT TERM EFFECTS.

EYE CONTACT. Irritation.

SKIN CONTACT. Slight irritation may occur.

INGESTION. Not expected route of exposure. Product does not present any acute toxicity hazard based on known information.

INHALATION. Product does not present any acute toxicity hazard based on known information.

### 11.2 CHRONIC EFFECTS

Experiences in human studies: large morbidity and mortality studies of both European and North American mineral wool (rock stone) manufacturing workers have been conducted with the traditional mineral wools. The studies have found no significant evidence of non-malignant lung disease (e.g. Fibrosis). The exonerated mineral wool has not been subject to epidemiological studies but consists of the less bio persistent fibres, which will disappear even faster from the lung than the rock (stone) wool fibres.

## 12. ECOLOGICAL INFORMATION.

12.1. Ecotoxicity n/a

12.2. Mobility no information available

12.3. Persistence and degradability n/a

12.4. Bioaccumulative potential low potential to bioconcentrate

12.5. Results of PBT assessment no information available

12.6. Other adverse effects no information available

## 13. DISPOSAL CONSIDERATIONS.

Waste must be disposed of in accordance with local regulations.

## 14. TRANSPORT INFORMATION.

14.1. Freight classifications UN No - n/a

14.2. ADR/IMDG Class Number - not classified

14.3. Classification Code - not classified

14.4. ADR/IMDR Packing Group - not classified

14.5. ADR Hazard Number - n/a

14.6. Shipping name - n/a

## 15. REGULATORY INFORMATION.

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### 15.1 LABEL

Symbols - None  
Risk Phrases- None  
Safety Phrases- None

## 16. OTHER INFORMATION.

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LIST OF RELEVANT R PHRASES - None

### FURTHER INFORMATION.

All grades contain graphite which is not recommended for electrical purposes. Note that dust from these products may compromise the integrity of electrical/electronic equipment.

### SOURCES OF KEY DATA USED TO COMPILE THE SAFETY DATA SHEET

Workplace Exposure Limits EH40/2005

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