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# **ASTRO**flame<sup>®</sup> **COSHH & DATA SHEETS** **MATERIAL SAFETY DATA**

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

CHEMICAL PRODUCT Trade Name ASTRO DL COVER

APPLICATION EXPANDS WHEN HEATED, USED MAINLY IN FIRE PROTECTION AS A FIRE STOPPER.

COMPANY IDENTIFICATION. **ASTROflame (Fire Seals) Ltd.**

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS.

### 2.1 CHEMICAL DESCRIPTION.

Mineral fibre with intercalated graphite and organic binder (latex). Two grades 101M and 109 contain inorganic fibre.

### 2.2 HAZARDOUS INGREDIENTS.

INGREDIENTS.	CAS No.	WT%
MINERAL FIBRE		25-31 DEPENDING ON GRADE
BALL CLAY (QUARTZ)	14808-600-7	28-44 DEPENDING ON GRADE.

## 3. HAZARD IDENTIFICATION.

"Contains respirable fibres. Can cause skin irritation"

## 4. FIRST AID MEASURES.

### 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 dusty 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. Do not induce vomiting because of risk of aspiration into lungs.

#### 4.4 INHALATION.

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

### **5. FIRE FIGHTING MEASURES.**

#### 5.1 EXTINGUISHING MEDIA.

Is not flammable therefore not applicable.

#### 5.2 FIRE AND EXPLOSION HAZARDS.

Not applicable.

#### 5.3. PROTECTION MEASURES.

Not applicable.

### **6. ACCIDENTAL RELEASE MEASURES.**

#### 6.1 PERSONAL PRECAUTIONS.

Protective clothing should be provided for workers when a significant quantity of fibres are liable to be deposited on their clothing. Clothes should be washed by a suitable organisation.

#### 6.2 ENVIRONMENTAL PRECAUTIONS.

Dust from intumescent products should be removed by vacuum, in a direction away from the operator, at frequent intervals during work to prevent the accumulation of dust. Where vacuuming is not possible then dust should be dampened and collected whilst still damp. All dust and hard waste should be placed in double impermeable, heavy gauge polythene sacks or bags which should be then sealed. Such waste must be disposed of at an authorised waste disposal site. Off-cuts should be disposed of in the same manner.

#### 6.3 CLEANING UP.

See section 6.2. Industrial type vacuum cleaners fitted with 'H' type filters and suitable bags must be used.

### **7. STORAGE AND HANDLING**

#### 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. Store fully supported of the ground in a cool dry place. Protect from excessive heat

#### 7.2 RECOMMENDED SHELF LIFE.

Likely to be indefinite under normal storage conditions.

### 7.3 HANDLING.

All machining will create dust, a portion of which may be in the form of respirable fibres. Where dust is generated, approved extraction equipment must be used and if this is not adequate, approved dust respirators used in the vicinity.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

### 8.1 OCCUPATIONAL EXPOSURE LIMITS

Man-made fibres can cause irritation of the skin and eyes and excessively dusty conditions may cause irritation of the upper respiratory tract. They contain fibres which can be breathed into the lungs.

Chemical	MEL / OES
Mineral Fibre	5mg/m <sup>3</sup> inhalable 2f/ml airborne fibre limit (MEL).
Ball Clay (Quartz)	0.3 mg/m <sup>3</sup> total, respirable dust.

### 8.2 ENGINEERING MEASURES

Fit and use approved extraction systems. Local ventilation for machining areas. If dust levels are likely to exceed limits, approved respirators must used.

### 8.3 PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection - see engineering measures.

Hand protection - gloves can be used when handling large areas. Barrier cream can be used.

Eye protection - use approved eye protection whilst machining.

Skin protection - not applicable, however to aid personal hygiene suitable overalls can be worn.

## 9. PHYSICAL / CHEMICAL PROPERTIES.

9.1 APPEARANCE. Black in colour.

9.2 ODOUR. N/A

9.3 PH. N/A

9.4 VISCOSITY. N/A

9.5 FREEZING POINT. N/A

9.6 FREEZE THAW RECOVERY. N/A

9.7 BOILING POINT. N/A

9.8 MELTING POINT. N/A (but see maximum working temperature in Astroflames Technical brochures)

9.9 FLASH POINT. N/A

9.10 AUTO-FLAMMABILITY. N/A

9.11 EXPLOSIVE PROPERTIES N/A

9.12 VAPOUR PRESSURE. N/A

9.13 VAPOUR DENSITY. N/A

9.14 RELATIVE DENSITY. 800 kg/m<sup>3</sup>

9.15 SOLUBILITY. 1025 kg/m<sup>3</sup>

9.16 PARTITION COEFFICIENT. N/A

## **10. STABILITY AND REACTIVITY.**

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 RECOMMENDED MATERIALS FOR EQUIPMENT.

No Special Requirements.

10.5 HAZARDOUS DECOMPOSITION PRODUCTS.

Residue will contain Quartz.

## **11. TOXICOLOGICAL INFORMATION.**

11.1 SHORT TERM EFFECTS.

EYE CONTACT. Irritation.

SKIN CONTACT. Whilst most peoples skin becomes resistant after a period of adaptation, some need to take precautions to protect their skin and a small number may have to move other work.

INGESTION. Not Applicable.

INHALATION. Nose and throat irritation.

11.2 CHRONIC EFFECTS

As mineral fibres are respirable and may be retained in the lung, there is the possibility of long term damage from exposure to high levels of dust. Dust levels to be expected with normal handling would be unlikely to exceed the control limit for Quartz.

## **12. ECOLOGICAL INFORMATION.**

LC50        N/A

COD        N/A

BOD        N/A

OTHER      Will endure in the ground.

### 13. DISPOSAL CONSIDERATIONS.

All intumescent based product waste must be disposed of at an authorised site suitably packed and labelled as already indicated in section 6.2

### 14. TRANSPORT INFORMATION.

14.1 PACKAGING. To prevent abrasion and liberation of dust.

#### 14.2 FREIGHT CLASSIFICATION

UN NUMBER	N/A
ADR NUMBER	N/A
IMDG CODE	N/A
PACKING GROUP	N/A
TREM CARD	N/A

### 15. REGULATORY INFORMATION.

15.1 CPL Xn harmful (mineral wool is classed as a category 3 carcinogen).

#### 15.2 CLASSIFICATION

Risk Phrases-  
R38 Irritating To Skin  
R40 Possible Risk Of Irreversible Effects

Safety Phrases-  
S36 Wear Suitable Protective Clothing  
S37 Wear Suitable Gloves

#### 15.3 OTHER LEGISLATION

Health & Safety At Work Act 1974  
Classifications, Packaging And Labelling Of Dangerous Substances Reg. 1984  
COSHH  
CHIPS99  
1994 Annual Report Of The Committees Of Toxicogenicity, Mutagenicity And Carcinogenicity Or The Chemicals In Foods, Consumer Products And The Environment.

### 16. OTHER 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. Products which have been used at elevated temperatures ( greater than 900° c) may undergo partial conversion to cristobalite, a form of crystalline silica. The maximum exposure limit (MEL) is 0.3mg/m3.

The information in this publication is accurate to the best of the knowledge of **ASTROflame (FireSeals) Ltd.**

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