



**MSDS – MATERIAL SAFETY DATA SHEET
ASTRO QUAD SEAL (QUAD FİTİL)**

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

1.1 CHEMICAL PRODUCT. ASTROflame Intumescent Fireseals.
(ASTRO QUAD SEAL)

1.2 APPLICATION. Expands when exposed to heat, used mainly in fire doors.

2. COMPOSITION / INFORMATION ON INGREDIENTS.

2.1 CHEMICAL DESCRIPTION.

Mineral fibre with intercalated graphite and organic binder (latex).

2.2 HAZARDOUS 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.



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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 there 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, heave 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 absorbtion 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.

Can be indefinite but 2 years (if kept dry) is a normal accepted limit.

7.3 HANDLING.

Regarding installation of the product, reference should be made to the installation instructions.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

8.1 OCCUPATIONAL EXPOSURE LIMITS. CHEMICAL MEL/OES
MINERAL FIBRE: 5mg/m³ inhalable, 2f/ml airborne fibre limit(MEL)
BALL CLAY (QUARTZ): 0.4mg/m³

8.2 ENGINEERING MEASURES.

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

8.3 PERSONAL PROTECTIVE EQUIPMENT.

Overalls, Gloves, Goggles and Respiratory Devices.

9. PHYSICAL / CHEMICAL PROPERTIES.

9.1 APPEARANCE. A rigid beige/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 ASTROflame's Technical brochures)

9.9 FLASH POINT. N/A

9.10 AUTO-FLAMMABILITY. N/A

9.11 EXPLOSIVE PROPERTIES N/A



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9.12 VAPOUR PRESSURE. N/A

9.13 VAPOUR DENSITY. N/A

9.14 RELATIVE DENSITY. 900 kg/m³

9.15 SOLUBILITY. Not soluble in water.

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.



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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

Man-made fibres can cause irritation of the skin and the eyes and excessively dusty conditions may cause irritation to the upper respiratory tract. They contain fibres which can be breathed into the lungs. The committee on the carcinogenicity (COC) of the department of health has concluded that the MMMFs considered in this review (i.e. rock/slag wool and glass wool) Should not be classified for carcinogenicity under the criteria laid out in the dangerous substances directive (67/548/EEC), in view of the negative results in inhalation studies in animals.

12. ECOLOGICAL INFORMATION.

Not Applicable.

13. DISPOSAL CONSIDERATIONS.

Any waste is considered non-hazardous and therefore it can be incinerated in a suitable facility or disposed of on an approved land fill site, provided the Local Regulations are observed.

14. TRANSPORT INFORMATION.

14.1 PACKAGING. No special precautions are necessary, it is, however, recommended that it is stored in a dry place away from foodstuffs

14.2 FREIGHT CLASSIFICATION.

Not Applicable.



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15. REGULATORY INFORMATION.

15.1 C.P.L CLASSIFICATION. Not Applicable.

HAZARD PICTOGRAM. Not Applicable

RISK PHRASES. Not Applicable.

SAFETY PHRASES. Not Applicable.

16. OTHER INFORMATION.

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

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