



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

1.1 CHEMICAL PRODUCT **THERMAL FIRE PIPE SLEEVE**

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

1.3 COMPANY IDENTIFICATION ASTROFLAME FIRESEALS LTD

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1.4 EMERGENCY TELEPHONE

NUMBER UK 01329 844500 INTL +1329844500

2. COMPOSITION / INFORMATION ON INGREDIENTS.

2.1 CHEMICAL DESCRIPTION EXONERATED MINERAL FIBRE AND ORGANIC FIBRE WITH INTERCALATED GRAPHITE AND ORGANIC BINDER (LATEX) PLUS A SMALL AMOUNT OF CLAY. WHEN HANDLING THE PRODUCTS,

FIBROUS DUSTS ARE RELEASED. BECAUSE OF THEIR HIGH BIOSOLUBILITY, THESE FIBROUS DUSTS ARE NOT CLASSIFIED AS CARCINOGENIC CATEGORY 1, 2 OR 3 (SUSPECTED CARCINOGENIC POTENTIAL).

2.2 HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO	WT %
COLLOIDAL SILICA	7631-86-9 10	10
BALL CLAY (QUARTZ)	14808-60-7 21/2	2.5

3. HAZARD IDENTIFICATION.

"CONTAINS RESPIRABLE FIBRES. CAN CAUSE SKIN IRRITATION". HIGH DUST LEVELS MAY IRRITATE THE THROAT AND EYES.

4. FIRST AID MEASURES.

4.1 EYE CONTACT: GENTLY 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 MINERAL FIBRE 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

5. FIRE FIGHTING MEASURES.

5.1 EXTINGUISHING MEDIA - IS NOT FLAMMABLE THEREFORE NOT APPLICABLE.

5.2 FIRE AND EXPLOSION HAZARD - 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 CLEANED BY A SUITABLE ORGANISATION.

6.2 ENVIRONMENTAL DUST FROM MINERAL FIBRE 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 THE DUST MUST BE DAMPENED AND COLLECTED WHILST STILL DAMP. ALL DUST AND HARD WASTE SHOULD BE PLACED IN DOUBLE IMERMEABLE, HEAVY GAUGE POLYTHENE SACKS OR BAGS WHICH SHOULD THEN BE SEALED. SUCH WASTE MUST BE DISPOSED OF AT AN AUTHORISED WASTE DISPOSAL SITE. OFF-CUTS SHOULD BE DISPOSED OF IN THE SAME MATTER.

6.3 CLEANING UP SEE SECTION 6.2. INDUSTRIAL TYPE VACUUM CLEANERS FITTED WITH 'H' TYPE FILTERS AND SUITBLE BAGS MUST BE USED.

7. STORAGE AND HANDLING

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7.1 STORAGE - BOTH MACHINED OR UNMACHINED ITEMS SHOULD BE PACKED TO PREVENT MOVEMENT AND ABRASION DURING TRANSIT AND ABSORPTION OF WATER. OTHERWISE NORMAL SAFE PRECAUTIONS FOR HANDLING CAN BE EMPLOYED. TO AVOID DAMAGE AND DISTORTION, STORE ON A SMOOTH LEVEL FOUNDATION

7.2 RECOMMENDED SHELF LIFE - LIKELY TO BE INDEFINITE UNDER NORMAL STORAGE CONDITIONS

7.3 HANDLING - ALL MACHINING WILL CREATE DUST, A PROPORTION 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. A SMALL PROPORTION OF PERSONNEL MAY BE SENSITIVE TO THE DUST AND DEVELOP A SKIN IRRITATION.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

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8.1 OCCUPATIONAL EXPOSURE

CHEMICAL	MEL/OES LIMITS
COLLOIDAL SILICA	2.4 f/ml Respirable 6 mg/m ³ inhalable (OES)
EXONERATED MINERAL	5 mg/m ³ inhalable. 2 f/ml 8 hour TWA (MEL)
BALL CLAY (QUARTZ)	0.3 mg/m ³

8.2 ENGINEERING MEASURES LOCAL - FIT AND USE APPROVED EXTRACTION SYSTEMS.

VENTILATION FOR MACHINING AREAS. IF DUST LEVELS ARE LIKELY TO EXCEED ACTION LIMIT, APPROVED RESPIRATORS MUST BE USED.

8.3 PERSONAL PROTECTIVE RESPIRATORY PROTECTION - SEE 8.2.

HAND PROTECTION - GLOVES CAN BE USED IF DESIRED BUT THEY SHOULD NOT BE USED WITH ROTATING EQUIPMENT. BARRIER CREAM CAN BE USED.

EYE PROTECTION - USE APPROVED EYE PROTECTION WHILST MACHINING.

SKIN PROTECTION - NOT APPLICABLE, HOWEVER TO AID PERSONAL

TO AID PERSONAL HYGIENE SUITABLE OVERALLS CAN BE WORN.

9. PHYSICAL / CHEMICAL PROPERTIES.

9.1 APPEARANCE INTUMESCENT 101M, 106, 107 AND 108 ARE GREY IN COLOUR
INTUMESCENT 109 IS 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

9.12 VAPOUR PRESSURE N/A

9. PHYSICAL/CHEMICAL PROPERTIES (Continued)

9.13 VAPOUR DENSITY N/A

9.14 RELATIVE DENSITY 600 kg/m³ (101M, 106 & 107) 200/250 kg/m³ (1087 and 109)

9.15 SOLUBILITY NOT SOLUBLE IN WATER

9.16 PARTITION COEFFICIENT N/A

10. STABILITY AND REACTIVITY.

10.1 STABILITY CONSIDERED STABLE UNDER RELATIVELY 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 - IRRITATION MAY OCCUR, OFTEN ON FIRST EXPOSURE TO PRODUCT.

INGESTION - N/A

INHALATION - NOSE AND THROAT IRRITATION.

11.2 CHRONIC EFFECTS - AS MINERAL FIBRES ARE RESPIRABLE AND MAY BE RETAINED IN THE LUNGS, THERE IS THE POSSIBILITY OF LONG TERM DAMAGE FROM EXPOSURE TO HIGH LEVELS OF DUST. HOWEVER EXONERATED MINERAL FIBRES ARE MUCH MORE BIOSOLUBLE AND WILL DISAPPEAR EVEN MORE RAPIDLY THAN THE TRADITIONAL TYPES.

12. ECOLOGICAL INFORMATION.

12.1 LC50 N/A.

12.2 COD N/A.

12.3 BOD N/A

12.4 OTHER - WILL ENDURE IN THE GROUND.

13. DISPOSAL CONSIDERATIONS.

ALL INTUMESCENT PRODUCTS 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 SEE 7.1

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 C.P.L CLASSIFICATION Xi IRRITANT. THIS MINERAL WOOL IS EXONERATED FROM CLASSIFICATION AS A CARCINOGEN.

HAZARD PICTOGRAM

RISK PHRASES - R38 IRRITATING TO SKIN.

SAFETY PHRASES -
S36 WEAR SUITABLE PROTECTIVE CLOTHING
S37 WEAR SUITABLE GLOVES

15.2 OTHER LEGISLATION -
HEALTH & SAFETY AT WORK ACT 1974.
CLASSIFICATION, PACKAGING AND LABELLING OF DANGEROUS SUBSTANCES
REGULATIONS 1984.
GUIDANCE NOTES FORM THE HSE: EH40, EH44

APPROVED CODES OF PRACTICE.
COSHH.CHIP 2002.

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) FOR MINERAL DUSTS CONTAINING CRISTOBALITE IS 0.3 mg/m³.

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