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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

1.1 CHEMICAL PRODUCT TYPE 101M INTUMESCENT SHEET

TYPE 106 INTUMESCENT BOARD

TYPE 107 INTUMESCENT

TYPE 108 INTUMESCENT BOARD

TYPE 109 INTUMESCENT

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

1.3 COMPANY IDENTIFICATION

ASTROFLAME FIRESEALS LTD
UNIT 8 THE I.O CENTRE
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2. COMPOSITION / INFORMATION ON INGREDIENTS.

2.1 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

BALL CLAY (QUARTZ) 14808-60-7 2½

3. HAZARD IDENTIFICATION.

" 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 NOT APPLICABLE.

5.3 HAZARD 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 IMPERMEABLE, 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 MANNER.

6.3 CLEANING UP SEE SECTION 6.2. INDUSTRIAL TYPE VACUUM CLEANERS FITTED WITH "TYPE FILTERS AND SUITABLE BAGS MUST BE USED.

7. STORAGE AND HANDLING

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 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 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 WHEN IN CONTACT WITH IT.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

8.1 OCCUPATIONAL EXPOSURE CHEMICAL MEL/OES

LIMITS

COLLOIDAL SILICA 6 mg/m³ inhalable 2.4 f/ml Respirable (OES)

EXONERATED MINERAL 5 mg/m³inhalable. 2 f/ml 8 hour TWA (MEL)

BALL CLAY (QUARTZ) 0.3 mg/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 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 HYGIENE SUITABLE OVERALLS CAN BE WORN.

9. PHYSICAL / CHEMICAL PROPERTIES.

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

INTUMESCENT 106 AND 108 ARE 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 DATA

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 600 kg/m³ (101M, 106 & 107) 200/250 kg/m³ (108 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 NO SPECIAL REQUIREMENTS. MATERIALS FOR EQUIPMENT

10.5 HAZARDOUS RESIDUE WILL CONTAIN QUARTZ. DECOMPOSITION PRODUCTS

11. TOXICOLOGICAL INFORMATION.

11.1 SHORT TERM EFFECTS EYE CONTACT - IRRITATION

SKIN CONTACT - IRRITATION MAY OCCUR, OFTEN ON FIRST EXPOSURE TO PRODUCT.

INGESTATION - 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.

15.1C.P.L CLASSIFICATION NONE (AS SUPPLIED CONDITION).

RISK PHRASES - NONE.

SAFETY PHRASES - NONE.

15.2 OTHER LEGISLATION HEALTH & SAFETY AT WORK ACT 1974.

15.3 ADDITIONAL GUIDANCE IF YOU PLAN TO CARRY OUT ANY CUTTING, SAWING, DRILLING,

MACHINING OR SIMILAR ACTIVITIES PLEASE REFER TO SECTION 8

EXPOSURE CONTROL/PERSONAL PROTECTION.

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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