

SAFETY DATA SHEET



ENVIROGRAF®

HS038-05-2021

Product Number: 38

Intumescent Material

ES/MP/900; ES/MP/FC; ES/MP/GP; ES/MP/V; ES/MP/PLY

Description:

Intumescent cloth with thin white fireproof card face (1mm thick), for upgrading flat panelled doors to fire-rated doors. Also available with veneer or Birch/Gaboon plywood. Intumescent cloth can be supplied independently for use by door manufacturers. The product is applied with Envirograf® Product 46 (IA) adhesive.

This product comprises of the following materials and therefore is supported by the following Health & Safety Data Sheets:

- (Appendix 1) Health & Safety Sheet Intumescent
- Health & Safety Sheet Card/Veneer (not applicable)

*The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

HEALTH & SAFETY DATA SHEET
APPENDIX 1
MULTIGRAF INTUMESCENT MATERIAL

Issue 4. May 2021

SECTION 1 - IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: Multigraf Intumescent Material
MANUFACTURER/SUPPLIER: Intumescent Systems Ltd
ADDRESS: Envirograf House, Barfrestone, Dover, Kent, CT15 7JG
TELEPHONE / FAX / EMAIL: 01304 842555 01304 842666 sales@envirograf.com
EMERGENCY PHONE NUMBER: 01304 842555 (Monday to Friday 8.30 – 5.30)

SECTION 2 - HAZARDS IDENTIFICATION

HAZARD STATEMENTS:

1. None for the non-woven products (manufactured articles) covered by this MSDS
2. None for dust and fibres released during handling
3. Cutting through the material and surface scuffing may release small amounts of glass or mineral wool fibres or particulates and carbon dust which are mechanically irritant to skin, eye and upper respiratory system.
4. As with any dust, pre-existing upper respiratory or lung disease may be aggravated.

Under the European chemicals Regulation 1907/2006 REACH this product is considered to be an article. These materials do not contain any substances of very high concern or substances intended to be released under normal foreseeable conditions of use.

Under Regulation 1907/2006 REACH Safety Data Sheets are only required for hazardous substances and mixtures/preparations; Intumescent Systems Ltd is not therefore legally obliged to supply Safety Data Sheets for its non-woven products.

Despite this Intumescent Systems Ltd has decided to provide its customers with information regarding the safe use and handling of the products listed above by means of this Material Safety Data Sheet

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION:

Substance	CAS / EC No	% by weight	Classification and labelling Regulation EC 1272/2008	Classification and labelling Directive 67/548/EEC
Mineral Wool ¹	287922-11-6	8.5-22.5	Not Classified ²	Not Classified
Chopped Strand Glass Fibre	65997-17-3	1.5-16.0	Article-Not Classified	Not Classified
Exfoliating Graphite	7782-42-5 / 231-995-3	4.0-16.0	Not Classified	Not Classified
Cellulose Fibre	65996-61-4 / 265-995-8	45-50	Not Classified	Not Classified
Polymeric Binder and coating ³	N/A - polymer	2.5-40	Not Classified	Not Classified

1) Man-made vitreous silicate fibres of random orientation with alkaline oxide and alkali earth oxides (Na₂O + K₂O+CaO+MgO+BaO) content greater than 18% by weight and fulfilling one of the Note Q conditions for increased bio-solubility.

2) Mineral wool fibres satisfying the Note Q conditions for increased bio-solubility are not classified as carcinogenic according to Directive 97/69/EC and Regulation EC 1272/2008 (page335 of the JOCE L353 of 31 Dec 2008)

3) The back surface of the product is sealed with polymeric coating to improve adhesion during use.

SECTION 4 - FIRST AID MEASURES

- SKIN:** Rinse affected areas with water and wash gently with soap. Do not use detergent.
- EYES:** Flush eyes with large quantities of water. Have eye bath readily available in areas where eye contact may occur. Seek medical attention if irritation continues.
- INGESTION:** Drink plenty of water. Seek medical advice.
- INHALATION:** Remove to fresh air, clear throat and blow nose to evacuate fibre/dust, drink water. Seek medical attention if symptoms persist.
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SECTION 5 - FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use extinguishing agent suitable for type of surrounding combustible materials. Do not inhale products of combustion.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Do not allow dust to be windblown.
Do not use compressed air to remove dust or fibres from equipment
Unwanted product should be collected and stored in sealed bags.
Dust/fibre deposits should be removed using a suitable vacuum cleaner with HEPA exhaust air filtration.
Collected deposits and used vacuum bags should be sealed into poly-bags before disposal.
If sweeping is required the area should be thoroughly damped down with water before sweeping starts to prevent dust and fibres becoming airborne during sweeping

SECTION 7 - HANDLING AND STORAGE

- HANDLING:** Keep dust generation to a minimum.
- STORAGE:** Store dry and cool. Keep in original wrapping until required for use.
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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

APPLICABLE WORKPLACE EXPOSURE LIMITS: from HSE EH40 Jan 2020:

MACHINE MADE MINERAL FIBRE: 2.0 fibres/millilitre & 5 mg/m³ (both 8 hr TWA)

FINE CARBON DUST: 3.5 mg/m³ (8 hr TWA) and 7.0 mg/m³ (15-minute reference period)

RESPIRATORY PROTECTION: Use local ventilation (Extraction) where available. If workplace exposures exceed the limits wear disposable dust mask to EN149:2001 FFP2 minimum

HAND PROTECTION: Use of gloves is recommended.

EYE PROTECTION: Wear goggles or safety glasses with side shields. Do not wear contact lenses.

SKIN PROTECTION: Wear overalls that are loose fitting at the neck and wrists. Wash work overalls separate from other clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Flexible Grey fibrous intumescent with black speckles with white card/veneer or Birch/Gaboon plywood

DENSITY: 470 – 690 kg/m³

EXPANSION: Rapid volumetric expansion occurs when product is heated above 200°C

FLAMMABILITY: Material will not support surface spread of flame

SECTION 10 - STABILITY AND REACTIVITY

STABILITY / CONDITIONS TO AVOID: Stable.

MATERIALS TO AVOID: Concentrated mineral acids or bases.

HAZARDOUS DECOMPOSITION PRODUCTS: depending upon the temperature combustion products may include, CO, CO₂, ammonia, oxides of nitrogen and HCN. Airborne respirable fibres may also be released.

HAZARDOUS POLYMERISATION: Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

MINERAL WOOL FIBRE:

Coarse fibres: in common with other man-made mineral fibres the vitreous silicate fibres in this product are mechanical irritants which may result in temporary irritation of the throat, eyes or skin.

Respirable fibres: the mineral content includes fibres which are less than 3µm diameter and greater than 5µm long which are classified as respirable.

Animal studies: short term inhalation studies of rats exposed to high levels of stone wool fibres have shown that the long fibres are biodegradable and quickly disappear from the lungs.

Human Epidemiological studies: large morbidity and mortality studies of both European and North American mineral wool manufacturing workers have been conducted with traditional mineral wools. The studies found no significant evidence of non-malignant lung disease (e.g. fibrosis). The studies did not establish a causal relationship between exposure to traditional mineral wools and malignant diseases (lung cancer or mesothelioma). The particular mineral wool fibre used in the products covered by this SDS is based on a new formulation with increased bio-solubility giving even more rapid clearance of fibres from the lungs compared with traditional mineral wools.

CHOPPED STRAND GLASS FIBRE:

There are no known chronic health effects connected with long term use or contact with continuous filament glass fibre. The glass fibre used in this product have a mean geometric diameter of greater than 6µm and are not classed as respirable. The evidence from human studies was evaluated by the international Agency for Research on Cancer (IARC) as insufficient to classify continuous filament glass fibre as a possible, probable or confirmed Cancer causing material.

In 1987 (IARC) has classified continuous filament glass fibre as “not classifiable with respect to human carcinogenicity (Group 3)”

GRAPHITE:

Powdered graphite is non-toxic. High levels of airborne graphite dust may be a mechanical eye irritant. Skin contact with graphite dust may cause temporary irritation due to mechanical effects; repeated prolonged exposures may lead to dermatitis. Airborne graphite dust is an upper respiratory irritant; exposures may aggravate pre-existing upper respiratory and lung diseases. Cases of pneumoconiosis, pulmonary fibrosis and emphysema have been reported in workers following prolonged exposures to high levels of airborne graphite dust.

POLYMERIC BINDER AND SELF ADHESIVE COATING:

The Polymeric binder and SAB coating are considered to be non-hazardous.

SECTION 12 - ECOLOGICAL INFORMATION

This product will remain stable over time with the inorganic components remaining inert.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste is not classified as a hazardous waste and may be disposed of at a normal licensed industrial waste site. Local regulations should be considered. Waste should be bagged or suitably contained for disposal to prevent any dusts being wind blown during disposal.

SECTION 14 - TRANSPORT INFORMATION

Not regulated for Transport. Ensure that dust is not windblown during transportation. Ensure that dust or fibres are not wind-blown during transportation.

SECTION 15 - REGULATORY INFORMATION

Product Hazard Classification according to Directive 67/548 EEC:
Not classified

Product Hazard Classification according to Regulation CE1272/2008:
Article - not classified

SECTION 16 - OTHER INFORMATION

Notes: revised and reissued with minor changes May 2021

Further information regarding working with man made mineral fibres and measurement techniques may be obtained by referring to Guidance Note EH46 1990 and MDHS59 1988 published by the UK, Health & Safety Executive.

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