



suppliers of passive fire products, acoustic and specialist insulation  
manufacturers of the Safire fire stopping range

## COSHH SAFETY DATA SHEET

### Safire Pressure Exerting Intumescent Mastic

1. **PRODUCT:** Intumescent Graphite Sealant

**PAGE:** 1 of 5

**DATE:** 1.06.2010

**ISSUE:** 1

**USE:** Fire protection sealant

2. **HAZARDS IDENTIFICATION**

Not classified as dangerous according to the CHIP Regulations. Also refer to section 11  
Contact with the skin may cause drying and slight irritation. Eye contact will cause irritation.

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

Aqueous polymer emulsion, intumescent and inorganic fillers, surfactant and biocide.  
Substances presenting a health hazard within the meaning of the CHIP Regulations or  
which are

assigned Occupational Exposure Limit values:-

Name	Einics No.	Conc.Range	Symbol*	R-Phrases*
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\*for full text see section 16.

4. **FIRST AID MEASURES**

**General:** In all cases of doubt or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air. No emergency care anticipated.

**Skin Contact:** Wash skin thoroughly with soap and water or a recognised skin cleaner.  
**DO NOT USE SOLVENT OR THINNERS.**

**Eye Contact:** Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes holding eyelids apart, and seek medical advice.

**Ingestion:** If accidentally swallowed wash mouth with water and give water to drink.  
**DO NOT** induce vomiting. Seek medical advice if stomach discomfort arises or persists

5. **FIRE FIGHTING MEASURES**

The liquid product is 'non-flammable'.

**Extinguishing Media:**

Recommended: alcohol resistant foam, CO<sub>2</sub>, powder, water spray/mist.

Not to be used: N/A

**Recommendations:** As the products contain combustible organic components, fire will produce black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Do not allow run off from fire fighting to enter drains or water courses.

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## 6. ACCIDENTAL RELEASE MEASURES

Refer to protective measures listed in sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth, and place in a suitable container for disposal in accordance with the waste regulations (see section 13). Do not allow to enter drains or water courses. If the product enters drains or sewers, the local water company should be contacted immediately. In the case of contamination of streams, rivers or lakes, the relevant Environment Agency.

## 7. HANDLING AND STORAGE

**HANDLING:** Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8. Keep containers closed when not in use. Never use high pressure to empty, the container is not a pressure vessel. Ensure good housekeeping and regular safe removal of waste materials.

**The Manual Handling Operations Regulations** may apply to the handling of containers/packages of this product. In order to calculate the weight of any pack size, multiply the volume in litres by the specific gravity value given in section 9. This will give the net weight of the product in kilograms.

Allowance will then have to be made for the immediate packaging to give the approximate gross weight.

**STORAGE:** Observe label precautions - Store between 5°C and 25°C in a dry well-ventilated place away from sources of heat. Protect from frost. Keep out of reach of children. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Provide adequate ventilation during application and drying. Where practicable this should be achieved by the use of local exhaust ventilation.

### EXPOSURE LIMITS:

Substance	Occupational Exposure Limits		Notations
	8 hr LTEL (1) ppm mgm <sup>-3</sup>	15 min STEL(2) ppm mgm <sup>-3</sup>	

(1) Long-term exposure limit - 8 hour time weighted average.

(2) Short-term exposure limit - 15 mins time weighted average.

(S) Occupational Exposure Standard (OES)

(M) Maximum Exposure Limit (MEL)

(R) Recommended by suppliers

(A) Allocated limits by analogy with similar materials

(SK) Risk of absorption through unbroken skin

(Sen) Capable of causing sensitisation by inhalation

OEL's are taken from the current version of EH40, except those marked (R) or (A) which are assigned by the supplier of the substance.

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**OCCUPATIONAL EXPOSURE CONTROLS:** All Personal Protective Equipment (ppe), including Respiratory Protective Equipment (rpe), used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH regulations.

**RESPIRATORY PROTECTION:** If exposure to hazardous substances identified in section 8 cannot be controlled by the provision of natural ventilation e.g. work in enclosed areas, exposure should be controlled, where reasonably practicable, by the use of mechanical exhaust ventilation; when this is not reasonably practicable, suitable respiratory protective equipment must be worn.

**HAND PROTECTION:** When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

**EYE PROTECTION:** Eye protection designed to protect against liquid splashes should be worn.

**SKIN PROTECTION:** Cotton or cotton/synthetic overalls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a recognised skin cleaner. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	paste
Flashpoint	>100°C
Viscosity	Not Applicable
Specific gravity	1.50-1.60 @ 20 °C
Solubility in water	miscible when wet.
pH	7.8 – 8.4

## 10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions (see section 7). In a fire, hazardous decomposition products such as smoke, carbon dioxide, carbon monoxide and oxides of nitrogen may be produced. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of an exothermic reaction.

## 11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed following the conventional method in CHIP and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and chronic effects of components from short term and long term exposure by oral, inhalation and dermal routes of exposure and eye contact. See sections 3 and 15 for details of the resulting hazard classification.

Splashes in the eye may cause irritation and reversible local damage. Repeated or prolonged contact may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis.

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**12. ECOLOGICAL INFORMATION**

There is no data available on the preparation itself. Do not allow to enter drains or watercourses or be deposited where it can affect ground or surface waters.

**The product has been assessed by the conventional method in CHIP and is not classified as dangerous for the environment.**

**13. DISPOSAL CONSIDERATIONS**

Do not allow to enter drains or water courses. Wastes, including emptied containers, are controlled waste and should be disposed of in accordance with regulations made under the 'Control of Pollution Act' and the 'Environmental Protection Act'. Using information provided in this data sheet, advice should be obtained from the relevant Environment Agency whether the Special Waste Regulations apply.

**14. TRANSPORT INFORMATION**

**Transport within the users premises:** Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Onwards transport subsequent to purchase:** Transport to be in accordance with ADR for road, IMDG for sea and ICAO/IATA for air.

Proper shipping name:	The product is not classified as dangerous for carriage.
UN number	
Hazard class:	
Packing group:	
Sub-hazard class:	

**15. REGULATORY INFORMATION**

**The product is determined as not being dangerous according to the CHIP Regulations. However, the following precautions should be observed:**

**S Phrases**

S2 Keep out of reach of children

S24/25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 After contact with skin, wash immediately with plenty of soap and water or a recognized skin cleaner.

S51 Ensure good ventilation during application and while drying.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The provisions of the Health and Safety at Work Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

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**16. OTHER INFORMATION**  
**Symbols and text of the R phrases in section 2:**

**REFERENCE DOCUMENTS**

**STATUTORY**

Air Navigation (Dangerous Substances ) Regulations  
Carriage of Dangerous Goods Regulations 2004  
Chemical (Hazard Information and Packaging for Supply) (Amendment) Regulations 2009  
Consumer Protection Act 1987  
Control of Pollution (Amendment) Act 1989  
Control of Substances Hazardous to Health Regulations 1999  
Environment Act 1995  
Environmental Protection (Duty of Care) Regulations 1992  
Environmental Protection Act 1990  
Factories Act 1961  
Health and Safety at Work Act 1974  
International Rail/Road Transport - RID and ADR (Current Editions)  
Management of Health and Safety at Work Regulations 1999  
Manual Handling Regulations 1992  
Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997  
Personal Protective Equipment at Work Regulations 1992  
Protection of Eyes Regulations 1974  
Provision and use of Personal Protective Equipment Regulations 1992  
Special Waste Regulations 1996 as amended  
Waste Management Regulations 1996

**APPROVED CODES OF PRACTICE**

ACOP - Control of Substances Hazardous to Health/Control of Carcinogenic Substances- HSE Books  
ACOP - Waste Management - The Duty of Care

**HEALTH AND SAFETY EXECUTIVE**

**GUIDANCE NOTES**

HS(G)37 An Introduction to Local Exhaust Ventilation  
EH40 Occupational Exposure Limits  
EH44 Dust: General Principles of Protection  
HS(G)53 The Selection, Use and Maintenance of Respiratory Protective Equipment  
HS(G)71 Storage of Packaged Dangerous Substances  
HS(G)193 COSHH Essentials: easy steps to control chemicals  
L23 Manual Handling Guidance on Regulations

**BRITISH STANDARDS PUBLICATIONS**

EN420: General Requirements for Gloves  
EN166: Personal Eye Protection: Specifications  
BS2092: Eye Protection for Industrial and Non-Industrial Users  
BS4275: Recommendations for the Selection, Use and Maintenance of Respiratory Protective Equipment

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the CHIP Regulations. The product should not be used for purposes other than those identified without first referring to the supplier and obtaining written handling instructions.

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As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application.

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