



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

COSHH SAFETY DATA SHEET

Safire High Temperature Adhesive

1. **PRODUCT: High Temperature Adhesive**

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USE: A silicate based adhesive/sealant with high temperature resistance.

2. **COMPOSITION/INFORMATION ON INGREDIENTS**

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*
Sodium silicate	215-687-4	15-25%	Xi	R36/37/38

*for full text see section 16.

3. **HAZARDS IDENTIFICATION**

Alkaline product.
Irritating to eyes and skin. See also section 11.

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: Not a hazard

Skin Contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or a recognised skin cleaner. DO NOT USE SOLVENT OR THINNERS. If irritation persists seek medical advice.

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 obtain immediate medical attention. Keep at rest. DO NOT induce vomiting.

5. **FIRE FIGHTING MEASURES**

The product is 'non-flammable'.

Extinguishing Media:

Recommended: alcohol resistant foam, CO₂, powder, water spray/mist.

Not to be used:

Recommendations: Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run off from fire fighting to enter drains or water courses.

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6. ACCIDENTAL RELEASE MEASURES

Exclude non-essential personnel. 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 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:

EXPOSURE LIMITS:

Substance	Occupational Exposure Limits		Notations
	8 hr LTEL (1)	15 min STEL(2)	
	ppm mgm ⁻³	ppm mgm ⁻³	

(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.

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: Not necessary in normal use.

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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
flash point	Not applicable
viscosity	soft thixotropic paste
specific gravity	1.80-1.90 @ 20 °C
solubility in water	miscible
pH	10-11

10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions (see section 7).

11. TOXICOLOGICAL INFORMATION

The product is not classed as a carcinogen.

12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. The alkalinity of the material will have a local effect on ecosystems sensitive to changes in pH. Do not allow to enter drains or water courses 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.

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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

Xi Irritant
R36 Irritating to eyes
R38 Irritating to skin

S Phrases

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

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.

16. OTHER INFORMATION

Symbols and text of the R phrases in section 2:

WARNING SYMBOLS

Xi Irritant

R36/37/38 Irritating to eyes, respiratory system and skin.

REFERENCE DOCUMENTS

STATUTORY

Air Navigation (Dangerous Substances) Regulations
Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations 1996
Carriage of Dangerous Goods by Road Regulations 1996 as amended
Chemical (Hazard Information and Packaging for Supply) (Amendment) Regulations 2002
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

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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. 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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