

SECTION 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Product name: Arc Fire Cement Cartridge

1.2 Use: A silicate based adhesive/sealant with high temperature resistance for filling and sealing flues and fire backs

1.3 Supplier of the safety data sheet:

Arc Building Products
IDA Business & Technology Park
Ballynattin
Arklow
Co. Wicklow
Ireland

Tel: +353 (0)402 32370
Fax: +353 (0)402 24168

e-mail of Competent person responsible for SDS: sales@arcbuildingproducts.ie

1.4 Emergency Tel: +353 (0)402 32370 (office hours only)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture

2.1.1 Regulation EC 1272/2008

SEE SECTION 16

2.1.2 Regulation 1999/45/EC

Alkaline

2.2 Label elements

2.2.1 Regulation EC 1272/2008

SEE SECTION 16

2.2.2 Regulation 1999/45/EC

Alkaline

Safety phrases S2 Keep out of reach of children
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

2.3 Other hazards

Alkaline

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2

Ingredient	CAS No.	EC No.	REACH registration No.	Classification according to 67/548/EEC	Classification According to Reg. (EC) 1278/2008 (CLP)	% W/W
Silicic acid Sodium salt (MR>3.2)	1344-09-8	215-687-4	01-2119448725-31-xxxx	Xi; R36;R37; R38	Skin irrit. 2 – H315 Eye Irrit. 2 – H319 STOT SE 3 – H335	6 - 12%
Clay cont. <10% respirable silica	N/A	934-756-6 (silica)	Not applicable	STOT RE 2	STOT RE 2	15 – 25%

*for full text of R-phrases and Hazard statements see section 16.

SECTION 4. FIRST AID MEASURES

- 4.1 General:** In all cases of doubt or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Skin Contact: Wash skin thoroughly with soap and water or a recognised skin cleaner. DO NOT USE SOLVENT OR THINNERS. Seek medical attention if irritation persists.
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 large volumes of water to drink. DO NOT induce vomiting. Seek medical attention.
Inhalation: Remove to fresh air.
- 4.2 Most important symptoms and effects**
Skin contact: Prolonged contact may cause redness, irritation and dry skin.
Eye contact: May affect vision and cause serious eye damage.
Ingestion: Possible discomfort.

SECTION 5. FIRE FIGHTING MEASURES

The liquid product is 'non-flammable'.

- 5.1 Extinguishing Media:** Foam, CO₂, powder, water spray/mist.
- 5.2 Special Hazards:** None. Aqueous product – non-combustible
- 5.3 Advice for firefighters:** Do not allow run off from fire fighting to enter drains or water courses.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1: Personal precautions and protective equipment

Avoid skin and eye contact. Wear personnel protective equipment

6.2: Environmental precautions

Do not allow to enter drains or water courses.

6.3: Method for containment and clean up

Contain and collect spillages and place in a suitable container for disposal in accordance with the waste regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited during use. For personal protection see Section 8.

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.

7.2 Precautions for safe storage Keep containers closed when not in use.

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 acidic materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

EXPOSURE LIMITS:

Substance	Occupational Exposure Limits				Notations
	8 hr LTEL (1)		15 min STEL(2)		
	ppm	mgm ⁻³	ppm	mgm ⁻³	
Respirable silica		0.1			

(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

8.2 Exposure Controls

Engineering Measures: Provide adequate ventilation during application and drying.

Respiratory equipment

If ventilation is insufficient suitable respiratory protective equipment must be worn.

Skin & Hand protection

Wear suitable protective clothing and plastic or rubber gloves.

Eye protection

Eye protection designed to protect against liquid splashes should be worn.

Hygiene measures

When using do not eat drink or smoke. Wash hands before eating, drinking, smoking or using the toilet.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

physical state	mastic
odour	odourless
flash point	>100°C
specific gravity	1.9-2.0 @ 20 °C
solubility	miscible with water.
pH	10 - 11

SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity
No data available
- 10.2 Chemical stability
Stable under normal temperature and storage conditions
- 10.3 Possibility of hazardous reactions
Slurry of the product in prolonged contact can react with aluminium, zinc, tin or their alloys evolving hydrogen.
Can react generating large amount of heat in contact with strong acids.
- 10.4 Conditions to avoid
See section 10.3
- 10.5 Incompatible materials
See section 10.3
- 10.6 Hazardous decomposition products
None known

SECTION 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on Toxicological effects
There is no data available on the product itself. The product has been assessed following the conventional method in CHIP and is not classified as toxic.
 - Ingestion
May cause discomfort if swallowed. May cause stomach pain
 - Skin contact
Irritating to skin
 - Eye contact
Risk of serious damage to eyes.
 - Sensitisation
Not sensitising
 - STOT
Not classified

SECTION 12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity
Not regarded as dangerous for the environment.
- 12.2 Persistence and degradability
The product is inorganic and is not biodegradable.
- 12.3 Bio accumulative potential
The product is not bio accumulating
- 12.4 Mobility in soil
Not mobile
- 12.5 Results of PBT and vPvB assessment
Not classified as PBT/vPvB
- 12.6 Other adverse effects
Not available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of this material as hazardous or special waste in accordance with local or national requirements.

SECTION 14. TRANSPORT INFORMATION

This product is not covered by International regulation on the transport of dangerous goods.

- | | | | |
|------|--|---------------------------------|----------------|
| 14.1 | UN number: | Not applicable | |
| 14.2 | Proper shipping name: | Not applicable | |
| 14.3 | Transport hazard class: | Not applicable | |
| 14.4 | Packing group: | Not applicable | |
| 14.5 | Environmental hazards: | Not classed as Marine pollutant | |
| 14.6 | Special precautions for users: | Not applicable | |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: | | Not applicable |

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical (Hazard Information and Packaging for Supply) (Amendment) Regulations 2009
Control of Substances Hazardous to Health Regulations 1999
Environment Act 1995
Management of Health and Safety at Work Regulations 1999
Personal Protective Equipment at Work Regulations 1992
Special Waste Regulations 1996 as amended

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 |

15.2 Chemical safety assessment

SECTION 16. OTHER INFORMATION

Classification according to Regulation (EC) 1272/2008 (CLP)

Physical and chemical hazards:	Not classified
Human Health:	Not classified
Environment:	Not classified

Label in accordance with Regulation (EC) 1272/2008 (CLP)

Signal word:	None
Hazard statements:	None

Precautionary statements:	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P302+352	IF ON SKIN: wash with plenty of soap and water
	P305+351+338	IF IN EYES: rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
	P332+313	If skin irritation occurs: Get medical advice/attention.

Symbols and text of the R phrases in section 2:

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

STOT SE 3: Specific target organ toxicity – single exposure category 3

H315: causes skin irritation

H319: causes serious eye irritation.

H335: may cause respiratory irritation

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of EU Regulation 1272/2008 (CLP). 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.