

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Code SIG49
Product Name Sigunite 49AF
Product Description Powder accelerator for sprayed concrete.
Manufacturer/Supplier Sika Limited
Watchmead
Welwyn Garden City
Hertfordshire.
AL7 1BQ
tel. 01707 394444
Fax. 01707 329129

2. COMPOSITION/INFORMATION ON THE COMPONENTS**Preparation - Hazardous ingredients (Europe)**

Component	CAS/EINECS	Concentration	Classification	Risk Phrases
Aluminium Sulphate	16828-12-9	50.00% - 100.00%	Xi	R41
Cement	65997-15-1	25.00% - 50.00%	Xi	R37/38, R41
Limestone	1317-65-3	2.50% - 10.00%	-	-

3. HAZARD IDENTIFICATION

Main Hazards Risk of serious damage to eyes.
Irritating to respiratory system and skin.

4. FIRST AID MEASURES

Eye Contact Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open.
Obtain medical attention urgently.

Skin Contact Wash skin thoroughly with soap and water.
Obtain medical attention if blistering occurs or redness persists.

Ingestion Do not induce vomiting. Seek medical attention.

Inhalation Remove from exposure.
In cases of possible respiratory irritation or if feeling unwell in cases of prolonged exposure, obtain medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media Not combustible.
Select extinguishing agent appropriate to other materials involved.

Special Hazards of Product None.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear appropriate protective clothing.

Environmental Precautions and Clean-up Methods Prevent the material from entering drains or water courses.

Spillages Avoid creating a dust.
Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.



7. HANDLING AND STORAGE

Handling

Exposure by inhalation or skin contact should be minimised by good Industrial Hygiene practices.

Storage

Avoid inhaling dust. Avoid contact with eyes, skin and clothing. Storage area should be: cool. dry. away from incompatible materials.
Store in original containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits - GB

Aluminium salts, soluble
Limestone

UK EH40: WEL 2mg/m³ 8h TWA.
UK EH40: WEL 10 mg/m³ 8h TWA. Dust, total inhalable:
UK EH40: WEL 4 mg/m³ 8h TWA. Dust, respirable:
UK EH40: WEL 10 mg/m³ 8h TWA. Dust, total inhalable:
UK EH40: WEL 4 mg/m³ 8h TWA. Dust, respirable:

Cement

Engineering Control Measures

Every effort should be made to prevent airborne dusts arising during mixing operations.
Exposure should be kept as low as reasonably practicable by the application of hygiene principles and appropriate techniques.

Respiratory Protection

Good ventilation should be provided to keep airborne dust levels below exposure limits.
If limits are exceeded use an approved dust mask.

Hand Protection

Wear suitable impervious gloves.

Eye Protection

Wear safety glasses if risks of accidental contamination are possible during application.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Powder.

Color

Light - Brown.

Odor

None.

pH

Approx. 4 at 10% w/w in water.

Flash Point °C

Not applicable.

Solubility - Water

Partially soluble.

Density (kg/m³)

Approx. 1.10. (loose)

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Materials to avoid

Strong acids. Alkalis. Halogenated compounds.
Product may react have limited reaction with surfaces of aluminium,zinc,and their alloys to evolve hydrogen.

Hazardous Decomposition Products

Combustion will generate: oxides of sulphur.



11. TOXICOLOGICAL INFORMATION

<i>Acute toxicity</i>	Low order of acute toxicity.
<i>Eye irritation</i>	The product should be considered as a severe eye irritant.
<i>Skin irritation</i>	Frequent or prolonged skin contact may cause some local short term skin irritation.

12. ECOLOGICAL INFORMATION

<i>Mobility</i>	A major part of the product will dissolve rapidly in water.
<i>Persistence/degradability</i>	Inorganic basis, therefore non biodegradable.
<i>Ecotoxicity</i>	The product may be harmful to aquatic organisms.


13. DISPOSAL

<i>Product Disposal</i>	Hazardous waste. Arrange for disposal via a licensed waste contractor.
<i>Container Disposal</i>	Dispose of containers with care. Empty containers may contain hazardous residues. Empty packaging should be removed by a licensed waste contractor.

14. TRANSPORT INFORMATION

<i>ADR/RID : Proper shipping name</i>	Not Regulated under ADR/RID
<i>IMDG : Proper shipping name</i>	Not Regulated under IMDG
<i>IATA : Proper shipping name</i>	Not Regulated under ICAO

15. REGULATORY INFORMATION

<i>Label Requirements</i>	Irritant 
<i>Risk Phrases</i>	Risk of serious damage to eyes. Irritating to respiratory system and skin.
<i>Safety Phrases</i>	Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

16. OTHER INFORMATION

<i>First Issue Date</i>	04.10.1995
<i>Revisions Highlighted</i>	Composition/Information on the Components Main Hazards Disposal Exposure Controls and Personal Protection Regulatory Information
<i>Uses and Restrictions</i>	Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken.



SAFETY DATA SHEET

Sigunite 49AF

Date of issue - 05/05/2005.

SIG49

UK Legislation

Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions.
SI 2002/1689: Chemicals (Hazard Information and Packaging) Regulations
The Control of Substances Hazardous to Health Regulations, 2004
SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.

UK Guidance Publications

SI No. 972/1996: The Special Waste Regulations 1996
General Approved Code of Practice to COSHH Regulations, HSE.
EH40, Occupational Exposure Limits, HSE. Revised Annually.
HS(G) 53, Respiratory Protective Equipment - a Practical Guide for Users, HSE.
EH44, Dust in the Workplace: General Principles of Protection, HSE.
HS(G) 37, An Introduction to Local Exhaust Ventilation, HSE.
CONIAC Health Hazard Information Sheet No.26 (Cement)

Footnote

The information contained in this SDS corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the Technical Data Sheet prior to use.