

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

Component	Concentration	Classification	Risk Phrases
1) Aluminium salts, soluble	50.00%-100.00%	Xi	R41, .
2) Cement	25.00%-50.00%	Xi	R41

HAZARD IDENTIFICATION

Main Hazards Risk of serious damage to eyes.
Respirable dusts could if inhaled over a prolonged period constitute a health hazard.

Health Effects - Eyes Dust may cause conjunctival irritation.
Serious damage may result if treatment is delayed.

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 Wash out mouth with water.
Have victim drink 240-300ml of water. If vomiting occurs naturally, rinse mouth and repeat administration of water.
Do not induce vomiting. Obtain medical attention.

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

FIRE FIGHTING MEASURES

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

Special Hazards of Product None.

**ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Wear appropriate protective clothing.

**Environmental Precautions and
Clean-up Methods
Spillages**

Try to prevent the material from entering drains or water courses.

Avoid creating a dust.
Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.**HANDLING AND STORAGE****Handling**

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

StorageAvoid inhaling dust. Avoid contact with eyes, skin and clothing.
Storage area should be: cool. dry. away from incompatible materials.
Store in original containers.**EXPOSURE CONTROLS/PERSONAL PROTECTION****Occupational Exposure Limits - GB**

1) Aluminium salts, soluble

UK EH40: OES 2mg/m³ 8h TWA.The product should be considered as a 'nuisance dust'. Exposure should be controlled to the minimum that is reasonably practicable and should not exceed 10mg/m³ 8-hour TWA for inhalable dust.

2) Cement

UK EH40: OES 10mg/m³ 8h TWA. Dust, total inhalable:
UK EH40: OES 5mg/m³ 8h TWA. Dust, respirable:**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.

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.

Explosion Limits (%)

Not determined.

Solubility - Water

Partially soluble.

Density (kg/m³)

Approx. 1.10. (loose)

Flammability

Not flammable

**STABILITY AND REACTIVITY****Stability**

Stable under normal conditions.

Materials to avoidStrong 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.

TOXICOLOGICAL INFORMATION**Acute toxicity**

Low order of acute toxicity.

Eye irritation

The product should be considered as a severe eye irritant.

Skin irritation

Frequent or prolonged skin contact may cause some local short term skin irritation.

ECOLOGICAL INFORMATION**Mobility**

A major part of the product will dissolve rapidly in water.

Persistence/degradability

Inorganic basis,therefore non biodegradable.

Ecotoxicity

The product may be harmful to aquatic organisms.

DISPOSAL**Product Disposal**

Dispose of as Special Waste.

Container Disposal

Arrange for disposal via a licensed waste contractor.

Dispose of containers with care.

Empty containers may contain hazardous residues.

Empty packaging should be removed by a licensed waste contractor.

TRANSPORT INFORMATION**UN :** UN number

None assigned.

UN : Proper shipping name

Not listed.

ADR/RID Substance Identification Number

Not listed.

ADR/RID Proper shipping name

Non - Hazardous

IMDG : Proper shipping name

Not listed.

REGULATORY INFORMATION**Label Requirements**

Irritant

**Risk Phrases**

Risk of serious damage to eyes.

Safety Phrases

Do not breathe dust.

Avoid contact with skin and eyes.

After contact with skin, wash immediately with plenty of: soap and water.

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

**OTHER INFORMATION*****First Issue Date***

04.10.1995

Revisions Highlighted

Composition/Information on the Components
Main Hazards
Toxicological Information
R Phrases
Disposal

Uses and Restrictions

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.

UK Legislation

Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions.
SI 1993/1746: Chemicals (Hazard Information and Packaging) Regulations, 1993.
SI 1999/437: The Control of Substances Hazardous to Health Regulations
SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.

UK Guidance Publications

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.