SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
   Trade name : Sika® Armorex L2 High Flow Grout

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.3 Details of the supplier of the safety data sheet
   Company : Sika Limited
             Watchmead
             Welwyn Garden City
             Hertfordshire AL7 1BQ
             United Kingdom
   Telephone : +44 (0)1707 394444

1.4 Emergency telephone number
   Emergency telephone number : +44 (0)1707 363899 (available during office hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   Type of product : Mixture
   Classification (REGULATION (EC) No 1272/2008)
   Skin corrosion, Category 1A
   H314: Causes severe skin burns and eye damage.
   Serious eye damage, Category 1
   H318: Causes serious eye damage.
   Specific target organ toxicity - single exposure, Category 3, Respiratory system
   H335: May cause respiratory irritation.

2.2 Label elements
   Labelling (REGULATION (EC) No 1272/2008)
   Hazard pictograms : 
   Signal word : Danger
   Hazard statements : H314 Causes severe skin burns and eye damage.
                        H335 May cause respiratory irritation.
Precautionary statements:

**Prevention:**
- P260 Do not breathe dust or mist.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:
- 266-043-4 Cement (chromium reduced)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Classification</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cement (chromium reduced)</strong></td>
<td>Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H335</td>
<td>&gt;= 40 - &lt; 60</td>
</tr>
<tr>
<td>65997-15-1 266-043-4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Substances with a workplace exposure limit:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Classification</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO2)</td>
<td></td>
<td>&gt;= 40 - &lt; 60</td>
</tr>
<tr>
<td>14808-60-7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>238-878-4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General advice: Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled: Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact: Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

In case of eye contact: Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Keep eye wide open while rinsing.

If swallowed: Do not induce vomiting without medical advice.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Cough
Respiratory disorder
Dermatitis
See Section 11 for more detailed information on health effects and symptoms.

Risks: Health injuries may be delayed.
corrosive effects
irritant effects
Causes serious eye damage.
May cause respiratory irritation.
Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
5.2 Special hazards arising from the substance or mixture
Hazardous combustion products: No hazardous combustion products are known

5.3 Advice for firefighters
Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.
Further information: Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions: Use personal protective equipment. Avoid breathing dust. Deny access to unprotected persons.

6.2 Environmental precautions
Environmental precautions: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up
Methods for cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling: Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products.

Advice on protection against fire and explosion: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not
7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place. Store in accordance with local regulations.

Other data: Keep in a dry place. No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s): No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

| Components                  | CAS-No.     | Value | Control parameters | Basis *
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement (chromium reduced)</td>
<td>65997-15-1</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>GB EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4 mg/m³</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Quartz (SiO2)</td>
<td>14808-60-7</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

General dust value

| Form of exposure | Value type | Control parameters | Basis *
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalable</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Respirable</td>
<td>TWA</td>
<td>4 mg/m³</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Personal protective equipment

Eye protection: Safety glasses with side-shields conforming to EN166
Eye wash bottle with pure water
Wear eye/face protection.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.

Recommended: Butyl rubber/nitrile rubber gloves.
Contaminated gloves should be removed.
Skin and body protection : Dust impervious protective suit
Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
particulate filter P
P1: Inert material; P2, P3: hazardous substances
Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

Environmental exposure controls
General advice : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance : powder
Colour : grey
Odour : odourless
Odour Threshold : No data available
Flash point : Not applicable
Autoignition temperature : No data available
Decomposition temperature : No data available
Lower explosion limit (Vol-%) : No data available
Upper explosion limit (Vol-%) : No data available
Flammability : No data available
Explosive properties : No data available
Oxidizing properties : No data available

pH : > 11,5

Melting point/range / Freezing point : No data available
Boiling point-boiling range : No data available

Vapour pressure : No data available

Density : 1.5 g/cm³

Bulk density : 1.500 kg/m³

Water solubility : soluble

Partition coefficient: n-octanol/water : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

Relative vapour density : No data available

Evaporation rate : No data available

9.2 Other information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability
The product is chemically stable.

10.3 Possibility of hazardous reactions
Hazardous reactions : Stable under recommended storage conditions.

10.4 Conditions to avoid
Conditions to avoid : No data available

10.5 Incompatible materials
Materials to avoid : No data available
10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

**Acute toxicity**
Not classified based on available information.

**Skin corrosion/irritation**
Causes severe burns.

**Serious eye damage/eye irritation**
Causes serious eye damage.

**Respiratory or skin sensitisation**
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**
Not classified based on available information.

**Carcinogenicity**
Not classified based on available information.

**Reproductive toxicity**
Not classified based on available information.

**STOT - single exposure**
May cause respiratory irritation.

**STOT - repeated exposure**
Not classified based on available information.

**Aspiration toxicity**
Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment

**Product:**
 Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

**Product:**
 Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

**Product** : The generation of waste should be avoided or minimized wherever possible.
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**European Waste Catalogue** : 16 03 03* inorganic wastes containing dangerous substances

**Contaminated packaging** : 15 01 10* packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

**ADR**
Not dangerous goods

**IATA**
Not dangerous goods

**IMDG**
Not dangerous goods

14.6 Special precautions for user
No data available
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code  
Not applicable

SECTION 15: Regulatory information

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

Prohibition/Restriction
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : None of the components are listed (=> 0.1 %).
REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH Information: All substances contained in our Products are
- preregistered or registered by our upstream suppliers, and/or
- preregistered or registered by us, and/or
- excluded from the regulation, and/or
- exempted from the registration.

Not applicable

VOC-CH (VOCV) : no VOC duties

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: Environmental Protection Act 1990 & Subsidiary Regulations
Health and Safety at Work Act 1974 & Subsidiary Regulations
Control of Substances Hazardous to Health Regulations (COSHH)
May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.

Other regulations : This product contains cement. Wet cement or mortar may cause alkali burns if in direct and/or prolonged contact with the skin. Wear protective clothing at all times when working with cement based products.

15.2 Chemical safety assessment
This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Full text of H-Statements
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Full text of other abbreviations
Eye Dam. Serious eye damage
Skin Irrit. Skin irritation
STOT SE Specific target organ toxicity - single exposure
ADR Accord européen relatif au transport international des marchandises
   Dangereuses par Route
CAS Chemical Abstracts Service
DNEL Derived no-effect level
EC50 Half maximal effective concentration
GHS Globally Harmonized System
IATA International Air Transport Association
IMDG International Maritime Code for Dangerous Goods
LD50 Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50 Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL Occupational Exposure Limit
PBT Persistent, bioaccumulative and toxic
PNEC Predicted no effect concentration
SVHC Substances of Very High Concern
vPvB Very persistent and very bioaccumulative

The information contained in this Safety Data Sheet 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 product data sheet prior to any use and processing.

Changes as compared to previous version!