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

1.1 Product identifier

Trade name: Sika®-4A Waterstop

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

At present there is no complete information available on identified uses. When the data becomes available, it will be integrated into the safety data sheet.

Product use: Concrete and mortar admixture.

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.
Specific target organ toxicity - single exposure, Category 3, Respiratory system H335: May cause respiratory irritation.

Classification (67/548/EEC, 1999/45/EC)

Corrosive R35: Causes severe burns.
Irritant R37: Irritating to respiratory system.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms: Danger

Signal word: Danger

Hazard statements: H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.

Supplemental Hazard Statements: EUH071 Corrosive to the respiratory tract.

Precautionary statements: P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Use only outdoors or in a well-ventilated area. 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. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/container in accordance with local regulation.

Hazardous components which must be listed on the label:
- 209-529-3 potassium carbonate
- 234-391-6 Sodium aluminate

2.3 Other hazards
This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium carbonate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium aluminate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 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**
- Clean mouth with water and drink afterwards plenty of water.
- Do NOT induce vomiting.
Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

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

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. 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:
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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 of 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:
Normal measures for preventive fire protection.

Hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:
Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.

Other data:
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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters *</th>
<th>Basis *</th>
</tr>
</thead>
<tbody>
<tr>
<td>caustic potash</td>
<td>1310-58-3</td>
<td>STEL</td>
<td>2 mg/m3</td>
<td>GB EH40</td>
</tr>
<tr>
<td>glycerol</td>
<td>56-81-5</td>
<td>TWA</td>
<td>10 mg/m3</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>
8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields
                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.
                Suitable for short time use or protection against splashes:
                Butyl rubber/nitrile rubber gloves (0,4 mm),
                Contaminated gloves should be removed.
                Suitable for permanent exposure:
                Viton gloves (0,4 mm),
                breakthrough time >30 min.

Skin and body protection : 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.
                         organic vapor filter (Type A)
                         A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm
                         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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>light yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Note: not applicable</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>not applicable</td>
</tr>
<tr>
<td>Lower explosion limit (Vol%)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit (Vol%)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>14</td>
</tr>
<tr>
<td>Melting point/range / Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>1.3 g/cm³ at 20 °C</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Note: soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>&gt; 7 mm²/s at 40 °C</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium carbonate</td>
<td>Acute oral toxicity: LD50 Oral rat: &gt; 2.001 mg/kg</td>
</tr>
<tr>
<td>caustic potash</td>
<td>Acute oral toxicity: Acute toxicity estimate: 500 mg/kg Method: Converted acute toxicity point estimate</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation

Product
Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Product
No data available

Respiratory or skin sensitisation

Product
No data available
Germ cell mutagenicity

**Product**
Mutagenicity : No data available

Carcinogenicity

**Product**
Carcinogenicity : No data available

Reproductive Toxicity/Fertility

Reproductive toxicity : No data available

No data available

Reproductive Toxicity/Development/Teratogenicity

Teratogenicity : No data available

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

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
   No data available

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

SECTION 14: Transport information

ADR
14.1 UN number: 1719
14.2 Description of the goods: CAUSTIC ALKALI LIQUID, N.O.S. (caustic potash, Sodium aluminate)
14.3 Class: 8
14.4 Packing group: III
Classification Code: C5
Labels: 8
Tunnel restriction code: (E)
14.5 Environmentally hazardous: no

IATA
14.1 UN number: 1719
14.2 Description of the goods: Caustic alkali liquid, n.o.s. (caustic potash, Sodium aluminate)
14.3 Class: 8
14.4 Packing group : III
Labels : 8
14.5 Environmentally hazardous : no

IMDG
14.1 UN number : 1719
14.2 Description of the goods : CAUSTIC ALKALI LIQUID, N.O.S.
(caustic potash, Sodium aluminate)
14.3 Class : 8
14.4 Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
14.5 Marine pollutant : no

14.6 Special precautions for user
No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not applicable

SECTION 15: Regulatory information

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

Labelling according to EC Directives (1999/45/EC)

Hazard pictograms :

Corrosive

R-phrase(s) : R35 Causes severe burns.
R37 Irritating to respiratory system.

S-phrase(s) : S 1/2 Keep locked up and out of the reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazardous components which must be listed on the label:
- 234-391-6 Sodium aluminate
- 215-181-3 caustic potash
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.

VOC-CH (VOCV): no VOC duties

VOC-EU (solvent): not applicable

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Full text of R-Phrases
R22 Harmful if swallowed.
R35 Causes severe burns.
R36/37/38 Irritating to eyes, respiratory system and skin.

Full text of H-Statements
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Full text of other abbreviations
Acute Tox. Acute toxicity
Eye Irrit. Eye irritation
Met. Corr. Corrosive to metals
Skin Corr. Skin corrosion
Skin Irrit. Skin irritation
STOT SE Specific target organ toxicity - single exposure
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!