Safety Data Sheet
according to 91/155/EEC and ISO 11014-1

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1. Identification of the substance/preparation and company

Product

Product name

SIKA 4A

Manufacturer/supplier information

Manufacturer/supplier:            Sika South Africa (Pty) Ltd
Street/postbox:                    P.O. Box 15408
Town/City and Post Code:           3608 Pinetown
Country:                           South Africa
Phone:                             +27 31 792 65 00
Telefax:                           +27 31 700 17 60

General information:
Emergency information phone:
                        +27 31 792 65 00

* 2. Composition/information on ingredients

Chemical characterization
Mixture of carbonates, aluminates and silicates

Hazardous ingredients

Designation according to 67/548/EEC

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Concentration</th>
<th>Danger symbols R phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>1310-58-3</td>
<td>2.5 - 10 %</td>
<td>C</td>
</tr>
<tr>
<td>11138-49-1</td>
<td>2.5 - 10 %</td>
<td>C</td>
</tr>
<tr>
<td>584-08-7</td>
<td>10 - 25 %</td>
<td>Xi</td>
</tr>
</tbody>
</table>

3. Hazards identification

Hazards identification

C Corrosive

Information on hazards to man and to the environment

35 Causes severe burns.
37 Irritating to respiratory system.

4. First-aid measures

National regulations

General instructions

In any case show the physician the Safety Data Sheet
4. First-aid measures (continued)

After inhalation
   In the event of symptoms take medical treatment.

After skin contact
   In case of contact with skin wash off immediately with soap and water
   Consult a doctor if skin irritation persists.

After eye contact
   In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.
   Summon a doctor immediately.

After ingestion
   Do not induce vomiting.
   Summon a doctor immediately.

5. Fire-fighting measures

Suitable extinguishing media
   compatible with all usual extinguishing media

Exposure hazard arising from the product, its combustion products or resulting gases
   In the event of fire the following can be released:
      Carbon monoxide (CO)
      Carbondioxide (CO2)
      Nitrogen oxides (NOx)

Additional information
   Fire residues and contaminated firefighting medium must be disposed of in accordance with the local regulations.
   Collect contaminated firefighting water separately, must not be discharged into the drains.

6. Accidental release measures

Personal precautions
   Ensure adequate ventilation.
   Use personal protective clothing.
   Use breathing apparatus if exposed to vapours/dust/aerosol.

Environmental precautions
   Do not allow to enter drains or waterways
   In case of entry into waterways, soil or drains, inform the responsible authorities.

Procedures for cleaning up
   Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).
6. Accidental release measures (continued)
   When picked up, treat material as prescribed under heading "Disposal".

7. Handling and storage
   Handling
   Instructions for safe handling
   See chapter 8 / Personal protective equipment.
   Instructions for fire and explosion protection
   Not applicable.

   Storage
   Requirements for storage rooms and containers
   Keep container tightly closed and dry in a cool, well-ventilated place

   Combined storage instructions
   Keep away from food, beverages and animal feedstocks.

   Additional information regarding storage
   Protect from frost.
   Protect from heat and direct sunlight
   Protect from atmospheric moisture and water

8. Exposure controls/personal protection

   Personal protective equipment
   General protective and hygiene measures
   Take care for sufficient ventilation or exhaust on the workshop place.
   Avoid contact with eyes and skin
   Use barrier skin cream.
   Remove soiled or soaked clothing immediately.
   Do not eat, drink or smoke during work time.
   Wash hands before breaks and after work.

   Respiratory protection
   Not applicable.

   Hand protection
   Butyl rubber/nitrile rubber gloves

   Eye protection
   Tightly fitting safety glasses
   Face shield

   Body protection
   Working clothes
9. Physical and chemical properties

Appearance
- Physical state: liquid
- Colour: slightly yellow
- Odour: odourless

Data relevant to safety
- Boiling point: approx. 100 °C
- Flash point: not applicable
- Density at 20°C: 1.127 g/cm³
- Solubility in water: soluble
- pH value at 20°C: approx. 13

10. Stability and reactivity

Conditions to avoid
- Not any known.

Materials to avoid/dangerous reactions
- Hazardous reactions possible with:
  - Acids

Thermal decomposition and hazardous decomposition products
  - No decomposition if used as prescribed.

11. Toxicological information

Experience on humans
- When skin contact:
  - Causes burns.
- When eyes contact:
  - Causes burns.
- When inhalation:
  - May cause irritation.
- When swallowed:
  - Smallest amount may cause considerable health disorders.

12. Ecological information

Additional information
- Do not allow to enter waste water drain, waterways or soil.

13. Disposal considerations
13. Disposal considerations (continued)

Packaging

Recommendations
Completely emptied packagings can be given for recycling.
Packaging containing remains of dangerous substances, as well as
packagings disposed of remains can be unharmed eliminated in
accordance with the regulations.

* 14. Transport information

ADR/RID
UN 3266 Class: 8 Packing group: III Class.code: C5
Proper shipping name
Corrosive liquid, basic, inorganic, n.o.s
Label No.: 8

IMO/IMDG
UN 3266 Class: 8 Packing group: III
EmS: F-A, S-B
Marine pollutant: no
Proper shipping name
Corrosive liquid, basic, inorganic, n.o.s.
Label No.: 8

IATA/ICAO
UN 3266 Class: 8 Packing group: III
Proper shipping name
Corrosive liquid, basic, inorganic, n.o.s.
Label No.: 8

* 15. Regulatory information

Labelling according to EEC Directive
The product is classified and labelled in accordance with
EC directives/the relevant national laws.
Relevant hazardous ingredients for labelling
Contains: potassium hydroxide
Aluminium sodium oxide

Danger symbols
C Corrosive

R phrases
35 Causes severe burns.
37 Irritating to respiratory system.

S phrases
26 In case of contact with eyes, rinse immediately with
plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face
protection.
* 15. Regulatory information (continued)
   45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

* 16. Other information

   Recommended use: Chemical product for construction and industry

   R-phrases of the ingredients listed in chapter 2
   22 Harmful if swallowed.
   35 Causes severe burns.
   36/37/38 Irritating to eyes, respiratory system and skin.

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