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

1.1 Product identifier

Trade name : Sikadur®-41 CF Normal (A)

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

Product use : Adhesive

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 irritation, Category 2 H315: Causes skin irritation.
Eye irritation, Category 2 H319: Causes serious eye irritation.
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:

Signal word : Warning
Hazard statements

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

- P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/ eye protection/ face protection.

Response:

- P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.
- P337 + P313: If eye irritation persists: Get medical advice/ attention.
- P362 + P364: Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

- 500-033-5 reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)
- 271-846-8 oxirane, mono[(C12-14-alkyloxy)methyl]derivs

Additional Labelling:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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

Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight &lt;= 700) 25068-38-6 500-033-5 01-2119456619-26-XXXX</td>
<td>Eye Irrit.2; H319 Skin Irrit.2; H315 Skin Sens.1; H317 Aquatic Chronic2; H411</td>
<td>&gt;= 20 - &lt; 25</td>
</tr>
<tr>
<td>oxirane, mono[(C12-14-alkyloxy)methyl]derivs 68609-97-2 271-846-8 01-2119485289-22-XXXX</td>
<td>Skin Irrit.2; H315 Skin Sens.1; H317</td>
<td>&gt;= 1 - &lt; 2,5</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.
If symptoms persist, call a physician.

In case of eye contact
Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

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
Allergic reactions
Excessive lachrymation
Erythema
Dermatitis
See Section 11 for more detailed information on health effects and symptoms.

Risks
irritant effects
sensitising effects
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

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
   Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

   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: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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: Do not breathe vapours or spray mist. 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. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. 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: Keep container tightly closed in a dry and well-ventilated place. 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): Consult most current local Product Data Sheet prior to any use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye protection: Safety glasses with side-shields conforming to EN166
Eye wash bottle with pure water

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 : No special measures required.

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 : paste

Colour : grey

Odour : characteristic

Odour Threshold : No data available

Flash point : > 101 °C

Autoignition temperature : Not applicable

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 : No data available
Melting point/range / Freezing point : No data available
Boiling point/boiling range : No data available
Vapour pressure : 0,001 hPa
Density : ca.1,94 g/cm³ at 20 °C
Water solubility : No data available
Partition coefficient: n-octanol/water : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : > 20,5 mm²/s at 40 °C
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 : Oxidizing agents

10.6 Hazardous decomposition products
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Not classified based on available information.

Components:
reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700):
Acute oral toxicity  :  LD50 Oral (Rat): > 5.000 mg/kg
Acute dermal toxicity :  LD50 Dermal (Rabbit): > 20.000 mg/kg

oxirane, mono(C12-14-alkyloxy)methyl)derivs:
Acute oral toxicity  :  LD50 Oral (Rat): > 5.000 mg/kg

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye irritation.

Respiratory or skin sensitisation
Skin sensitisation: May cause an allergic skin reaction.
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
Not classified based on available information.

STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:
reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700):

Toxicity to fish : LC50: 2 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates:

(1-methylethyl)-1,1'-biphenyl:

Toxicity to daphnia and other aquatic invertebrates : LC50: 0.167 mg/l, 48 h, Daphnia magna (Water flea)

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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

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**

- 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

**Contaminated packaging**

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

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**SECTION 14: Transport information**

**ADR**

14.1 **UN number**: 3077
14.2 **UN proper shipping name**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
   (epoxy resin)
14.3 **Transport hazard class(es)**: 9
14.4 **Packing group**: III
14.5 **Environmental hazards**: yes

**IATA**

14.1 **UN number**: 3077
14.2 **UN proper shipping name**: Environmentally hazardous substance, solid, n.o.s.
   (epoxy resin)
14.3 **Transport hazard class(es)**: 9
14.4 **Packing group**: III
14.5 **Environmental hazards**: yes

**IMDG**

14.1 **UN number**: 3077
14.2 **UN proper shipping name**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
   (epoxy resin)
14.3 **Class**: 9
14.4 **Packing group**: III
14.5 **Labels**: F-A
14.6 **EmS Number 1**: S-F
14.5 Marine pollutant: yes

IMDG
Transport in accordance with 2.10.2.7 of the IMDG-Code

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.


E2 ENVIRONMENTAL HAZARDS

<table>
<thead>
<tr>
<th>Quantity 1</th>
<th>Quantity 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 t</td>
<td>500 t</td>
</tr>
</tbody>
</table>

VOC-CH (VOCV) : 0,01 %
no VOC duties

VOC-EU (solvent) : 0,01 %

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: Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Full text of H-statements

| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

Full text of other abbreviations

- Aquatic Acute: Acute aquatic toxicity
- Aquatic Chronic: Chronic aquatic toxicity
- Asp. Tox.: Aspiration hazard
- Eye Irrit.: Eye irritation
- Skin Irrit.: Skin irritation
- Skin Sens.: Skin sensitisation
- 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 dose (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)
- OEL: Occupational Exposure Limit
- PBT: Persistent, bioaccumulative and toxic
- PNEC: Predicted no effect concentration
- SVHC: Substances of Very High Concern
Very persistent and very bioaccumulative

**Classification of the mixture:**

- Skin Irrit. 2: H315  
- Eye Irrit. 2: H319  
- Skin Sens. 1: H317  
- Aquatic Chronic 2: H411

**Classification procedure:**

- Calculation method

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 !**