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

### 1.1 Product identifier

Trade name : Sikadur®-31 DW Part A

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

Product use : Sealant/adhesive

### 1.3 Details of the supplier of the safety data sheet

Company name of supplier : Sika Ireland Ltd
Sika House
Ballymun Industrial Estate
Dublin 11
Telephone : +353 1862 0709
E-mail address of person responsible for the SDS : EHS@UK.Sika.com

### 1.4 Emergency telephone number

National Poisons Information Centre (NPIC) (01) 809 2166
(available 8am - 10pm every day)

Sika Ireland (01) 862 0709 (available during office hours)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or 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. |
| Reproductive toxicity, Category 1B | H360F: May damage fertility. |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :

Signal word : Danger

Hazard statements :

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H360F | May damage fertility. |

| | | | |
|---|---|---|---|
| | | H412 | Harmful to aquatic life with long lasting effects. |
| Precautionary statements | : | **Prevention:** | |
| | | P201 | Obtain special instructions before use. |
| | | P261 | Avoid breathing mist or vapours. |
| | | P264 | Wash skin thoroughly after handling. |
| | | P273 | Avoid release to the environment. |
| | | P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| | | **Response:** | |
| | | P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |

**Hazardous components which must be listed on the label:**
bis-[4-(2,3-epoxipropoxi)phenyl]propane
1,4-bis(2,3 epoxypropoxy)butane

**Additional Labelling**

Restricted to professional users.

**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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Components**

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification | Concentration (% w/w) |
|---|---|---|---|
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | 1675-54-3<br>216-823-5<br>603-073-00-2<br>01-2119456619-26-XXXX | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317<br>Aquatic Chronic 2; H411<br>---<br>specific concentration limit<br>Eye Irrit. 2; H319<br>>= 5 %<br><br>Skin Irrit. 2; H315<br>>= 5 % | >= 10 - < 20 |
| 1,4-bis(2,3 epoxypropoxy)butane | 2425-79-8<br>219-371-7<br>603-072-00-7<br>01-2119494060-45-XXXX | Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317<br>Repr. 1B; H360F<br>---<br>Acute toxicity estimate<br><br>Acute oral toxicity: 1.163 mg/kg | >= 2,5 - < 5 |

For explanation of abbreviations 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.
If symptoms persist, call a physician.

| | | |
|---|---|---|
| In case of eye contact | : | Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed | : | Do not induce vomiting without medical advice.<br>Rinse mouth with water.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person. |

**4.2 Most important symptoms and effects, both acute and delayed**

| | | |
|---|---|---|
| Symptoms | : | Allergic reactions<br>Excessive lachrymation<br>Erythema<br>Dermatitis<br>See Section 11 for more detailed information on health effects and symptoms. |
| Risks | : | Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye irritation.<br>May damage fertility.<br><br>irritant effects<br>sensitising effects<br>toxic effects for reproduction |

**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 | : | In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. |

**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.<br>Deny access to unprotected persons. |

**6.2 Environmental precautions**

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

**6.3 Methods and material 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).<br>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).<br>Do not get in eyes, on skin, or on clothing.<br>For personal protection see section 8.<br>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.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Pregnant women or women of child-bearing age should not be exposed to this product.<br>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. |
| Further information on storage stability | : | 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**

**Occupational Exposure Limits**

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

**Appropriate engineering controls**

Maintain air concentrations below occupational exposure standards.
Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment (PPE)**

| | | |
|---|---|---|
| Eye/face protection | : | Safety glasses with side-shields conforming to EN166 |
| 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.<br>Suitable for short time use or protection against splashes:<br>Butyl rubber/nitrile rubber gloves (> 0,1 mm)<br>Contaminated gloves should be removed.<br>Suitable for permanent exposure:<br>Viton gloves (0.4 mm),<br>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.<br>Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. |
| Respiratory protection | : | In case of inadequate ventilation wear 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.<br>organic vapor filter (Type A)<br>A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm<br>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 sufficent 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.<br>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

| | | |
|---|---|---|
| Physical state | : | liquid |
| Form | : | paste |
| Colour | : | white |
| Odour | : | odourless |
| Melting point/ range / Freezing point | : | No data available |

| | | |
|---|---|---|
| Boiling point/boiling range | : | No data available |
| Flammability (solid, gas) | : | No data available |

**Upper/lower flammability or explosive limits**

| | | |
|---|---|---|
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Flash point | : | > 101 °C<br>Method: closed cup |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| pH | : | ca. 7,5 (20 °C)<br>Concentration: 50 % |

**Viscosity**

| | | |
|---|---|---|
| Viscosity, kinematic | : | > 20,5 mm2/s (40 °C) |

**Solubility(ies)**

| | | |
|---|---|---|
| Water solubility | : | insoluble |
| Partition coefficient: n-octanol/water | : | No data available |
| Vapour pressure | : | < 0,0093 hPa (20 °C) |
| Density | : | ca. 2 g/cm3 (20 °C) |
| Relative vapour density | : | No data available |
| Particle characteristics | : | 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 | : | No hazards to be specially mentioned. |

**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**
:
No hazardous decomposition products are known.

## SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
**Acute toxicity**
Not classified due to lack of data.
**Components:**
**bis-[4-(2,3-epoxipropoxi)phenyl]propane:**
Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

**1,4-bis(2,3 epoxypropoxy)butane:**
Acute oral toxicity : LD50 Oral (Rat): 1.163 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 due to lack of data.
**Germ cell mutagenicity**
Not classified due to lack of data.

**Carcinogenicity**
Not classified due to lack of data.
**Reproductive toxicity**
May damage fertility.

**STOT - single exposure**
Not classified due to lack of data.
**STOT - repeated exposure**
Not classified due to lack of data.
**Aspiration hazard**
Not classified due to lack of data.
**11.2 Information on other hazards**
**Endocrine disrupting properties**
Not classified due to lack of data.

**Product:**

| | | |
|---|---|---|
| Assessment | : | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**bis-[4-(2,3-epoxipropoxi)phenyl]propane:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 1,8 mg/l<br>Exposure time: 48 h |

### 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 Endocrine disrupting properties

**Product:**

| | | |
|---|---|---|
| Assessment | : | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

### 12.7 Other adverse effects

**Product:**

| | | |
|---|---|---|
| Additional ecological information | : | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.<br>Harmful 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.<br>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

## SECTION 14: Transport information

**14.1 UN number or ID number**

**ADR** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

**14.2 UN proper shipping name**

**ADR** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

**14.3 Transport hazard class(es)**

**ADR** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

**14.4 Packing group**

**ADR** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA (Cargo)** : Not regulated as a dangerous good

**IATA (Passenger)** : Not regulated as a dangerous good

**14.5 Environmental hazards**

Not regulated as a dangerous good

**14.6 Special precautions for user**

Not applicable

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

Number on list 30: 1,4-bis(2,3 epoxypropoxy)butane

Number on list 75

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

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Volatile organic compounds : Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC)
Volatile organic compounds (VOC) content: < 0,01% w/w
no VOC duties

Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: < 0,01% w/w

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<br>Health and Safety at Work Act 1974 & Subsidiary Regulations<br>Control of Substances Hazardous to Health Regulations (COSHH)<br>May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments. |

**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**

| | | |
|---|---|---|
| H302 | : | Harmful if swallowed. |
| H312 | : | Harmful in contact with skin. |
| H315 | : | Causes skin irritation. |
| H317 | : | May cause an allergic skin reaction. |
| H319 | : | Causes serious eye irritation. |
| H332 | : | Harmful if inhaled. |
| H360F | : | May damage fertility. |
| H411 | : | Toxic to aquatic life with long lasting effects. |

**Full text of other abbreviations**

| | | |
|---|---|---|
| Acute Tox. | : | Acute toxicity |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Eye Irrit. | : | Eye irritation |
| Repr. | : | Reproductive toxicity |
| Skin Irrit. | : | Skin irritation |
| Skin Sens. | : | Skin sensitisation |
| ADR | : | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| 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 |
| REACH | : | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency |
| SVHC | : | Substances of Very High Concern |
| vPvB | : | Very persistent and very bioaccumulative |

**Further information**

| **Classification of the mixture:** | | **Classification procedure:** |
|---|---|---|
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Irrit. 2 | H319 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Repr. 1B | H360F | Calculation method |
| Aquatic Chronic 3 | H412 | 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 !

IE / EN