SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Sika® Unitherm® Platinum Part A

Revision Date 04.06.2019 Version 2.0 Print Date 04.06.2019

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

1.1 Product identifier
    Trade name : Sika® Unitherm® Platinum Part A

1.2 Relevant identified uses of the substance or mixture and uses advised against
    Product use : Fire protection system

1.3 Details of the supplier of the safety data sheet
    Company name of supplier : Sika Deutschland GmbH
                              Kornwestheimer Str. 103-107
                              D-70439 Stuttgart
    Telephone : +49 711 8009 0
    E-mail address of person responsible for the SDS : EHS@de.sika.com

1.4 Emergency telephone number
    Emergency CONTACT (24-Hour-Number): GBK GmbH Global Regulatory Compliance +49(0)6132-84463

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.
    Long-term (chronic) aquatic hazard, 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.
P264 Wash skin thoroughly after handling.
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.
P391 Collect spillage.

Hazardous components which must be listed on the label:
- reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
- triisobutyl phosphate
- Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)
- Phenol, methylstyrenated
- 2,2-bis(acryloyloxyethyl)butyl acrylate

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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Registration number</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)</td>
<td>25068-38-6</td>
<td>500-033-5</td>
<td>01-2119456619-26-XXXX</td>
<td>Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411</td>
<td>&gt;= 20 - &lt; 25</td>
</tr>
<tr>
<td>triisobutyl phosphate</td>
<td>126-71-6</td>
<td>204-798-3</td>
<td>01-2119957118-32-XXXX</td>
<td>Skin Sens. 1; H317</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
</tbody>
</table>
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| Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) | 933999-84-9  
618-939-5  
01-2119463471-41-XXXX | Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Skin Sens. 1; H317  
Aquatic Chronic 3; H412 | >= 2,5 - < 5 |

| Phenol, methylstyrenated | Not Assigned  
700-960-7  
270-966-8  
01-2119555274-38-XXXX | Skin Irrit. 2; H315  
Skin Sens. 1; H317  
Aquatic Chronic 3; H412 | >= 2,5 - < 5 |

| 2,2-bis(acryloyloxyethyl)butyl acrylate | 15625-89-5  
239-701-3  
01-2119489896-11-XXXX | Aquatic Chronic 1; H410  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Skin Sens. 1; H317  
Aquatic Acute 1; H400 | >= 1 - < 2,5 |

| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane Contains: methanol <= 0,2 % | 2530-83-8  
219-784-2  
01-2119513212-58-XXXX | Eye Dam. 1; H318 | >= 1 - < 2,5 |

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**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 : 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
Specific hazards during fire-fighting : 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
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). 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.

Storage class (TRGS 510): 10, Combustible liquids

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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis *</th>
</tr>
</thead>
<tbody>
<tr>
<td>triisobutyl phosphate</td>
<td>126-71-6</td>
<td>AGW (Vapour and aerosols)</td>
<td>50 mg/m³</td>
<td>DE TRGS 900</td>
</tr>
<tr>
<td>Peak-limit: excursion factor (category)</td>
<td>2:(II)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

Occupational exposure limits of decomposition products

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis *</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>TWA</td>
<td>200 ppm</td>
<td>2006/15/EC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGW</td>
<td>260 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Peak-limit: excursion factor (category)</td>
<td>4:(II)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

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: 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. Organic vapor (Type A) and particulate filter A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm 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: paste
Colour: various
Odour: slight
Odour Threshold: No data available
pH: Not applicable
Melting point/range / Freezing point: No data available
Boiling point/boiling range: No data available
Flash point: > 101 °C
Method: closed cup
Evaporation rate: No data available
Flammability (solid, gas): No data available
Upper explosion limit / Upper flammability limit: No data available
Lower explosion limit / Lower flammability limit: No data available
Vapour pressure : 0,01 hPa
Relative vapour density : No data available
Density : 1,5 g/cm³ (20 °C)
Solubility(ies)
  Water solubility : insoluble
  Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity
  Viscosity, dynamic : ca. 15.000 mPa.s (20 °C)
  Viscosity, kinematic : > 20,5 mm²/s (40 °C)
Explosive properties : No data available
Oxidizing properties : 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
Hazardous decomposition products : methanol
SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

**Components:**

reaction product: bisphenol-A-(epichlorhydrin); 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

2,2-bis(acryloyloxymethyl)butyl acrylate:
- Acute oral toxicity : LD50 Oral (Rat): 3.680 - 5.000 mg/kg
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:
- Acute oral toxicity : LD50 Oral (Rat): 7,010 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 5,3 mg/l
  Exposure time: 4 h
  Test atmosphere: dust/mist
- Acute dermal toxicity : LD50 Dermal (Rabbit): 4.248 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); epoxy resin (number average molecular weight ≤ 700):
Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,8 mg/l
Exposure time: 48 h

trisobutyl phosphate:
Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 11 mg/l
Exposure time: 48 h

Toxicity to algae : IC50 (Desmodesmus subspicatus (green algae)): 34,1 mg/l
Exposure time: 72 h

2,2-bis(acryloyloxymethyl)butyl acrylate:
Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,87 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

M-Factor (Acute aquatic toxicity): 1

M-Factor (Chronic aquatic toxicity): 1

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:
Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 55 mg/l
Exposure time: 96 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 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 : In accordance with the EWC Waste Regulation the classification of waste is to be assigned to the jurisdiction of the origin of waste. Therefore, it is not possible to assign a particular waste identification number. Completely emptied packagings may be given for recycling. Empty packaging may still contain hazardous residues. Empty packaging should be removed by a licensed waste contractor. Sika has agreed disposal contracts for all packaging which is brought into circulation in Germany. For further details see www.sika.de

SECTION 14: Transport information

14.1 UN number

| ADR   | : UN 3082 |
| IMDG  | : UN 3082 |
| IATA  | : UN 3082 |

14.2 UN proper shipping name

| ADR   | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((epoxy resin)) |
| IMDG  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
14.3 Transport hazard class(es)

ADR : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADR
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)
Remarks : Transport in accordance with special provision 375

IMDG
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Remarks : Transport in accordance with 2.10.2.7 of the IMDG-Code

IATA (Cargo)
Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous Dangerous Goods
Remarks : Transport in accordance with special regulation A 197

IATA (Passenger)
Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous Dangerous Goods

14.5 Environmental hazards

ADR
Environmentally hazardous : yes

IMDG
Marine pollutant : yes

IATA (Passenger)
Environmentally hazardous : yes

IATA (Cargo)
Environmentally hazardous : yes

14.6 Special precautions for user
The transport classification(s) provided herein are for informational purposes only, and solely based
upon the properties of the unpackaged material as it is described within this Safety Data Sheet.
Transportation classifications may vary by mode of transportation, package sizes, and variations in
regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
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): Not applicable
Schedules of Toxic Chemicals and Precursors
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 (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Conditions of restriction for the following entries should be considered:
   Number on list 3

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.

E2 ENVIRONMENTAL HAZARDS

Water contaminating class (Germany): WGK 2 obviously hazardous to water
   Classification according to AwSV, Annex 1 (5.2)

Volatile organic compounds: Law on the incentive tax for volatile organic compounds (VOCV)
Volatile organic compounds (VOC) content: < 0,01 %
no VOC duties

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

GISCODE : RE30

Other regulations:
Product is no subject to the Chemicals Prohibition Ordinance.

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
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
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.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
2006/15/EC : Europe. Indicative occupational exposure limit values
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
2006/15/EC / TWA : Limit Value - eight hours
DE TRGS 900 / AGW : Time Weighted Average
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)


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

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
Aquatic Chronic 2 H411  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!

DE / EN