



## SikaBiresin® AP539 (formerly P-39) Part A

Revision Date 10/02/2024

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### SECTION 1. IDENTIFICATION

Product name : SikaBiresin® AP539 (formerly P-39) Part A

Company name : Sika Corporation  
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Lyndhurst, NJ 07071  
USA  
www.sikausa.com

Telephone : (201) 933-8800

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Emergency telephone : CHEMTREC: 800-424-9300  
INTERNATIONAL: +1-703-527-3887

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

Carcinogenicity : Category 1B

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

Specific target organ toxicity - repeated exposure : Category 1 (hearing organs)

#### GHS label elements



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Hazard pictograms :



Signal Word :

Danger

Hazard Statements :

H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H350 May cause cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H372 Causes damage to organs (hearing organs) through prolonged or repeated exposure.

Precautionary Statements :

**Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation 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



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reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

#### Components

| Chemical name                        | CAS-No.     | Classification   | Concentration (% w/w) |
|--------------------------------------|-------------|--|-----------------------|
| styrene                              | 100-42-5    | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Skin Irrit. 2; H315<br>Eye Irrit. 2A; H319<br>Carc. 1B; H350<br>Repr. 2; H361<br>STOT SE 3; H335<br>STOT RE 1; H372<br>Asp. Tox. 1; H304 | $\geq 20 - < 30$      |
| silicon dioxide, chemically prepared | 112945-52-5 |  | $\geq 1 - < 5$        |
| N,N-dimethylaniline                  | 121-69-7    | Acute Tox. 3; H301<br>Acute Tox. 2; H330<br>Acute Tox. 3; H311   | $\geq 0.1 - < 1$      |
| ethylbenzene                         | 100-41-4    | Flam. Liq. 2; H225<br>Acute Tox. 4; H332<br>Carc. 2; H351<br>STOT RE 2; H373<br>Asp. Tox. 1; H304<br>Eye Irrit. 2A; H319   | $\geq 0.1 - < 1$      |

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES



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|   |   |
|---|---|
| General advice  | : Move out of dangerous area.<br>Consult a physician.<br>Show this material safety data sheet to the doctor in attendance.  |
| If inhaled  | : Move to fresh air.<br>Consult a physician after significant exposure.   |
| In case of skin contact                                     | : Take off contaminated clothing and shoes immediately.<br>Wash off with soap and plenty of water.<br>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  | : Clean mouth with water and drink afterwards plenty of water.<br>Do not induce vomiting without medical advice.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>Obtain medical attention.   |
| Most important symptoms and effects, both acute and delayed | : Causes skin irritation.<br>Causes serious eye irritation.<br>May cause respiratory irritation.<br>May cause cancer.<br>Suspected of damaging fertility or the unborn child.<br>Causes damage to organs through prolonged or repeated exposure.<br>irritant effects<br>carcinogenic effects<br>Cough<br>Respiratory disorder<br>Excessive lachrymation<br>Erythema<br>Dermatitis |
| Notes to physician  | : Treat symptomatically.  |

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### SECTION 5. FIRE-FIGHTING MEASURES

|                                       |   |
|---------------------------------------|---|
| Suitable extinguishing media          | : Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
| Unsuitable extinguishing media        | : Water<br>High volume water jet  |
| Specific hazards during fire fighting | : Do not use a solid water stream as it may scatter and spread fire.          |



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- Further information : Use water spray to cool unopened containers.  
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.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Remove all sources of ignition.  
Deny access to unprotected persons.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Use explosion-proof equipment.  
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
Take precautionary measures against electrostatic discharges.
- Advice on safe handling : Do not breathe vapors 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.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharge.  
Open drum carefully as content may be under pressure.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).  
Follow standard hygiene measures when handling chemical products.
- Conditions for safe storage : Prevent unauthorized access.



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Store in original container.  
Keep in a well-ventilated place.  
Observe label precautions.  
Store in accordance with local regulations.

Materials to avoid : Explosives  
Oxidizing agents  
Poisonous gases  
Poisonous liquids

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ingredients with workplace control parameters**

| Components                           | CAS-No.     | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis    |
|--------------------------------------|-------------|-------------------------------|--|----------|
| styrene                              | 100-42-5    | TWA                           | 100 ppm  | OSHA Z-2 |
|                                      |             | CEIL                          | 200 ppm  | OSHA Z-2 |
|                                      |             | Peak                          | 600 ppm<br>(5 mins. in any 3 hrs.)             | OSHA Z-2 |
|                                      |             | TWA                           | 50 ppm<br>215 mg/m3                            | OSHA P0  |
|                                      |             | STEL                          | 100 ppm<br>425 mg/m3                           | OSHA P0  |
|                                      |             | TWA                           | 10 ppm   | ACGIH    |
|                                      |             | STEL                          | 20 ppm   | ACGIH    |
| silicon dioxide, chemically prepared | 112945-52-5 | TWA (Dust)                    | 20 Million particles per cubic foot (Silica)   | OSHA Z-3 |
|                                      |             | TWA (Dust)                    | 80 mg/m3 / %SiO2 (Silica)                      | OSHA Z-3 |
| N,N-dimethylaniline                  | 121-69-7    | TWA                           | 5 ppm  | ACGIH    |
|                                      |             | STEL                          | 10 ppm   | ACGIH    |
|                                      |             | TWA                           | 5 ppm<br>25 mg/m3                              | OSHA Z-1 |
|                                      |             | TWA                           | 5 ppm<br>25 mg/m3                              | OSHA P0  |
|                                      |             | STEL                          | 10 ppm<br>50 mg/m3                             | OSHA P0  |
| ethylbenzene                         | 100-41-4    | TWA                           | 100 ppm<br>435 mg/m3                           | OSHA Z-1 |
|                                      |             | TWA                           | 100 ppm<br>435 mg/m3                           | OSHA P0  |
|                                      |             | STEL                          | 125 ppm<br>545 mg/m3                           | OSHA P0  |
|                                      |             | TWA                           | 20 ppm   | ACGIH    |



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**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.  
The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

### Personal protective equipment

**Respiratory protection** : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  
  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

**Skin and body protection** : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

**Hygiene measures** : Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.  
Remove respiratory and skin/eye protection only after vapors have been cleared from the area.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Wash thoroughly after handling.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste  
Color : transparent  
Odor : pungent  
Odor Threshold : No data available



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|  |   |   |
|--|---|---|
| pH   | : | Not applicable  |
| Melting point/ range / Freezing point            | : | No data available   |
| Boiling point/boiling range                      | : | 293 °F / 145 °C   |
| Flash point                                      | : | 88 °F / 31 °C<br>(Method: closed cup)                             |
| Evaporation rate                                 | : | No data available   |
| Flammability (solid, gas)                        | : | No data available   |
| Upper explosion limit / Upper flammability limit | : | 7.7 %(V)  |
| Lower explosion limit / Lower flammability limit | : | 1 %(V)  |
| Vapor pressure                                   | : | 5.9995 hpa  |
| Relative vapor density                           | : | No data available   |
| Density  | : | 1.23 g/cm <sup>3</sup> (68 °F / 20 °C)                            |
| Solubility(ies)                                  |   |   |
| Water solubility                                 | : | insoluble   |
| Solubility in other solvents                     | : | No data available   |
| Partition coefficient: n-octanol/water           | : | No data available   |
| Autoignition temperature                         | : | No data available   |
| Decomposition temperature                        | : | No data available   |
| Viscosity  |   |   |
| Viscosity, dynamic                               | : | No data available   |
| Viscosity, kinematic                             | : | > 20.5 mm <sup>2</sup> /s (104 °F / 40 °C)                        |
| Explosive properties                             | : | No data available   |
| Oxidizing properties                             | : | No data available   |
| Volatile organic compounds (VOC) content         | : | 330 g/l<br>Part A + MEKP-Liquid Hardener Reactor Part B Combined. |

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.





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| Chemical stability                 | : | The product is chemically stable.   |
| Possibility of hazardous reactions | : | Stable under recommended storage conditions.<br>Vapors may form explosive mixture with air. |
| Conditions to avoid                | : | Heat, flames and sparks.  |
| Incompatible materials             | : | No data available   |
| Hazardous decomposition products   | : | No decomposition if stored and applied as directed.   |

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

#### Components:

##### **styrene:**

Acute inhalation toxicity : LC50 (Rat): 11.8 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

##### **ethylbenzene:**

Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg  
Acute dermal toxicity : LD50 Dermal (Rabbit): 5,510 mg/kg

#### **Skin corrosion/irritation**

Causes skin irritation.

#### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Respiratory or skin sensitization**

##### **Skin sensitization**

Not classified due to lack of data.

##### **Respiratory sensitization**

Not classified due to lack of data.

##### **Germ cell mutagenicity**

Not classified due to lack of data.

##### **Carcinogenicity**

May cause cancer.

**IARC** Group 2A: Probably carcinogenic to humans



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|             |   |          |
|-------------|---|----------|
|             | styrene   | 100-42-5 |
|             | Group 2B: Possibly carcinogenic to humans       |          |
|             | ethylbenzene                                    | 100-41-4 |
| <b>OSHA</b> | Not applicable                                  |          |
| <b>NTP</b>  | Reasonably anticipated to be a human carcinogen |          |
|             | styrene   | 100-42-5 |

### Reproductive toxicity

Suspected of damaging fertility or the unborn child.

### STOT-single exposure

May cause respiratory irritation.

### STOT-repeated exposure

Causes damage to organs (hearing organs) through prolonged or repeated exposure.

### Aspiration toxicity

Not classified due to lack of data.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : Do not empty into drains; dispose of this material and its container in a safe way.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : 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.



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Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 1866  
Proper shipping name : Resin solution  
Class : 3  
Packing group : III  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355

##### IMDG-Code

UN number : UN 1866  
Proper shipping name : RESIN SOLUTION  
Class : 3  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no

#### Domestic regulation

##### 49 CFR

UN/ID/NA number : UN 1866  
Proper shipping name : Resin solution  
Class : 3  
Packing group : III  
Labels : FLAMMABLE LIQUID  
ERG Code : 127  
Marine pollutant : no

DOT: For Limited Quantity exceptions reference 49 CFR 173.150 (b)

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

#### 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.

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### SECTION 15. REGULATORY INFORMATION

**TSCA list** : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA



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Inventory exemption.

The following substance(s) is/are subject to a Significant New Use Rule:  
 naphtha (petroleum), hydrotreated heavy 64742-48-9 See 40 CFR 721.11784; Proposed Rule

No substances are subject to TSCA 12(b) export notification requirements.

### CERCLA Reportable Quantity

| Components | CAS-No.  | Component RQ (lbs) |
|------------|----------|--------------------|
| styrene    | 100-42-5 | 1000               |

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
 Carcinogenicity  
 Reproductive toxicity  
 Specific target organ toxicity (single or repeated exposure)  
 Skin corrosion or irritation  
 Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

|              |          |                |
|--------------|----------|----------------|
| styrene      | 100-42-5 | >= 20 - < 30 % |
| ethylbenzene | 100-41-4 | >= 0.1 - < 1 % |

### Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):  
 styrene 100-42-5 >= 20 - < 30 %

### California Prop. 65

**⚠ WARNING:** This product can expose you to chemicals including styrene, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)  
 OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-



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|                 |  |
|-----------------|--|
|                 | its for Air Contaminants   |
| OSHA Z-2        | : USA. Occupational Exposure Limits (OSHA) - Table Z-2                                 |
| OSHA Z-3        | : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts                   |
| ACGIH / TWA     | : 8-hour, time-weighted average  |
| ACGIH / STEL    | : Short-term exposure limit  |
| OSHA P0 / TWA   | : 8-hour time weighted average   |
| OSHA P0 / STEL  | : Short-term exposure limit  |
| OSHA Z-1 / TWA  | : 8-hour time weighted average   |
| OSHA Z-2 / TWA  | : 8-hour time weighted average   |
| OSHA Z-2 / CEIL | : Acceptable ceiling concentration   |
| OSHA Z-2 / Peak | : Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift |
| OSHA Z-3 / TWA  | : 8-hour time weighted average   |

### Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

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