

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/13/2020

Reviewed on 07/13/2020

### 1 Identification

- **Product identifier**
- **Trade name:** SikaBiresin AP112 (P11 Type2) WHITE
- **Article number:** I011688-3
- **Application of the substance / the mixture** Polyester filler
- **Details of the supplier of the safety data sheet**  
Sika Advanced Resins, US  
EHS Department
- **Manufacturer/Supplier:**  
Supplier's Name: Sika Advanced Resins, US  
Headquarters:  
30800 Stephenson Hwy  
Madison Heights, MI 48071  
USA  
  
advancedresins.ehs@us.sika.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
During normal opening times: +1 (248) 588-2270  
CHEMTREC 24-hour Emergency: +1 (800) 424-9300

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/13/2020

Reviewed on 07/13/2020

**Trade name: SikaBiresin AP112 (P11 Type2) WHITE**

(Contd. of page 1)

· **Hazard pictograms**



GHS02   GHS07   GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

Styrene

· **Hazard statements**

*Flammable liquid and vapor.*

*Causes skin irritation.*

*Causes serious eye irritation.*

*Suspected of causing cancer.*

*Suspected of damaging fertility or the unborn child.*

*Causes damage to the hearing organs through prolonged or repeated exposure.*

· **Precautionary statements**

*Avoid breathing dust/fume/gas/mist/vapors/spray*

*Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*

*Ground/bond container and receiving equipment.*

*Use explosion-proof electrical/ventilating/lighting/equipment.*

*Do not breathe dust/fume/gas/mist/vapors/spray.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*Store in a well-ventilated place. Keep cool.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

(Contd. on page 3)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/13/2020

Reviewed on 07/13/2020

**Trade name: SikaBiresin AP112 (P11 Type2) WHITE**

· **vPvB:** Not applicable.

(Contd. of page 2)

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 100-42-5 EINECS: 202-851-5	Styrene	10-20%
CAS: 121-69-7 EINECS: 204-493-5	N,N-dimethylaniline	0.1-1%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene	0.1-1%

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**  
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.  
· **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:**  
Mouth respiratory protective device.  
Wear self-contained respiratory protective device.

(Contd. on page 4)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2020

Reviewed on 07/13/2020

**Trade name: SikaBiresin AP112 (P11 Type2) WHITE**

(Contd. of page 3)

- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

100-42-5	Styrene	20 ppm
121-69-7	N,N-dimethylaniline	10 ppm
100-41-4	ethylbenzene	33 ppm

· **PAC-2:**

100-42-5	Styrene	130 ppm
121-69-7	N,N-dimethylaniline	330 ppm
100-41-4	ethylbenzene	1100* ppm

· **PAC-3:**

100-42-5	Styrene	1100* ppm
121-69-7	N,N-dimethylaniline	2,000 ppm
100-41-4	ethylbenzene	1800* ppm

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.

(Contd. on page 5)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2020

Reviewed on 07/13/2020

**Trade name: SikaBiresin AP112 (P11 Type2) WHITE**

(Contd. of page 4)

- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**100-42-5 Styrene**

ACGIH TLV	Short-term value: 170 at 40 ppm mg/m <sup>3</sup> Long-term value: 85 at 20 ppm mg/m <sup>3</sup>
OSHA PEL	Long-term value: 100 ppm mg/m <sup>3</sup> Ceiling limit value: 200 ppm mg/m <sup>3</sup>
PEL	Long-term value: 100 ppm Ceiling limit value: 200; 600* ppm *5-min peak in any 3 hrs
REL	Short-term value: 425 mg/m <sup>3</sup> , 100 ppm Long-term value: 215 mg/m <sup>3</sup> , 50 ppm
TLV	Short-term value: (170) mg/m <sup>3</sup> , (40) NIC-20 ppm Long-term value: (85) mg/m <sup>3</sup> , (20) NIC-10 ppm BEI, NIC-A3, NIC-OTO

**121-69-7 N,N-dimethylaniline**

PEL	Long-term value: 25 mg/m <sup>3</sup> , 5 ppm Skin
REL	Short-term value: 50 mg/m <sup>3</sup> , 10 ppm Long-term value: 25 mg/m <sup>3</sup> , 5 ppm Skin
TLV	Short-term value: 50 mg/m <sup>3</sup> , 10 ppm Long-term value: 25 mg/m <sup>3</sup> , 5 ppm Skin; BEI-M

(Contd. on page 6)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/13/2020

Reviewed on 07/13/2020

**Trade name: SikaBiresin AP112 (P11 Type2) WHITE**

(Contd. of page 5)

### 100-41-4 ethylbenzene

PEL	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL	Short-term value: 545 mg/m <sup>3</sup> , 125 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV	Long-term value: 87 mg/m <sup>3</sup> , 20 ppm BEI

**· Ingredients with biological limit values:**

### 121-69-7 N,N-dimethylaniline

BEI	1.5 % of hemoglobin Medium: blood Time: during or end of shift Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
-----	---

### 100-41-4 ethylbenzene

BEI	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
-	Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

**· Additional information:** The lists that were valid during the creation were used as basis.

**· Exposure controls**

**· Personal protective equipment:**

**· General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.

**· Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**· Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 7)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/13/2020

Reviewed on 07/13/2020

**Trade name: SikaBiresin AP112 (P11 Type2) WHITE**

(Contd. of page 6)

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Thixotropic Paste

**Color:** Dark green

· **Odor:** Pungent

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 145 °C (293 °F)

· **Flash point:** 31 °C (87.8 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 490 °C (914 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

**Lower:** 0.9 Vol %

**Upper:** 6.8 Vol %

· **Vapor pressure at 20 °C (68 °F):** 6 hPa (4.5 mm Hg)

· **Density at 20 °C (68 °F):** 1.56 g/cm<sup>3</sup> (13.02 lbs/gal)

(Contd. on page 8)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/13/2020

Reviewed on 07/13/2020

**Trade name: SikaBiresin AP112 (P11 Type2) WHITE**

(Contd. of page 7)

- |                           |                 |
|---------------------------|-----------------|
| · <b>Relative density</b> | Not determined. |
| · <b>Vapor density</b>    | Not determined. |
| · <b>Evaporation rate</b> | Not determined. |

- |  |                 |
|--|-----------------|
| · <b>Solubility in / Miscibility with Water:</b> | Fully miscible. |
|--|-----------------|

- **Partition coefficient (n-octanol/water):** Not determined.

- |                     |                 |
|---------------------|-----------------|
| · <b>Viscosity:</b> |                 |
| <b>Dynamic:</b>     | Not determined. |
| <b>Kinematic:</b>   | Not determined. |

- |                           |                         |
|---------------------------|-------------------------|
| · <b>Solvent content:</b> |                         |
| <b>Organic solvents:</b>  | 0.4 %                   |
| <b>VOC content:</b>       | 18.79 %                 |
|                           | 293.1 g/l / 2.45 lb/gal |

- |                            |  |
|----------------------------|--|
| · <b>Solids content:</b>   | 48.0 %                                     |
| · <b>Other information</b> | No further relevant information available. |

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

#### 100-42-5 Styrene

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	11.8 mg/l (rat)

- **Primary irritant effect:**
- on the skin:** Irritant to skin and mucous membranes.
- on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

(Contd. on page 9)

US



## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/13/2020

Reviewed on 07/13/2020

**Trade name: SikaBiresin AP112 (P11 Type2) WHITE**

(Contd. of page 8)

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

100-42-5	Styrene	2B
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	3
112926-00-8	Precipitated silica (Silica-Amorphous)	3
13463-67-7	titanium dioxide	2B
64-17-5	ethanol	1
121-69-7	N,N-dimethylaniline	3
100-41-4	ethylbenzene	2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 10)

US

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2020



Reviewed on 07/13/2020

Trade name: SikaBiresin AP112 (P11 Type2) WHITE

(Contd. of page 9)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport information**

· <b>UN-Number</b> · <b>DOT, IMDG, IATA</b>	UN1866
· <b>UN proper shipping name</b> · <b>DOT</b> · <b>IMDG, IATA</b>	Resin solution RESIN SOLUTION
· <b>Transport hazard class(es)</b> · <b>DOT</b>	
	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3
· <b>IMDG, IATA</b>	
	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3
· <b>Packing group</b> · <b>DOT</b>	III
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b> · <b>EMS Number:</b>	Warning: Flammable liquids F-E,S-E
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	UN 1866 RESIN SOLUTION, 3

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/13/2020

Reviewed on 07/13/2020

**Trade name: SikaBiresin AP112 (P11 Type2) WHITE**

(Contd. of page 10)

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

100-42-5 Styrene

121-69-7 N,N-dimethylaniline

100-41-4 ethylbenzene

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Chemicals regulated by TSCA Section 12(b)**

None of the ingredients is listed.

· **Chemical regulated by TSCA 5(a)(2)rule:**

None of the ingredients is listed.

· **Hazardous Air Pollutants**

100-42-5 Styrene

121-69-7 N,N-dimethylaniline

100-41-4 ethylbenzene

108-10-1 4-methylpentan-2-one

· **Proposition 65**

· **Chemicals known to cause cancer:**

100-42-5 Styrene

13463-67-7 titanium dioxide

100-41-4 ethylbenzene

108-10-1 4-methylpentan-2-one

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5 ethanol

108-10-1 4-methylpentan-2-one

(Contd. on page 12)

US

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2020

Reviewed on 07/13/2020

**Trade name: SikaBiresin AP112 (P11 Type2) WHITE**

(Contd. of page 11)

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

100-41-4 ethylbenzene	D
-----------------------	---

· **TLV (Threshold Limit Value established by ACGIH)**

121-69-7 N,N-dimethylaniline	A4
100-41-4 ethylbenzene	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7 titanium dioxide	
-----------------------------	--

· **Listed in CWC Regulations**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

Styrene

· **Hazard statements**

- Flammable liquid and vapor.
- Causes skin irritation.
- Causes serious eye irritation.
- Suspected of causing cancer.
- Suspected of damaging fertility or the unborn child.
- Causes damage to the hearing organs through prolonged or repeated exposure.

· **Precautionary statements**

- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Store in a well-ventilated place. Keep cool.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 13)

## Safety Data Sheet

*acc. to OSHA HCS*

Printing date 07/13/2020

Reviewed on 07/13/2020

**Trade name: SikaBiresin AP112 (P11 Type2) WHITE**

(Contd. of page 12)

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Date of preparation / last revision** 07/13/2020 / 8

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

· **\* Data compared to the previous version altered.**