



**SIPLAST**

## **Safety Data Sheet**

### **PA-311 E Membrane Adhesive**

SDS no. CHSND39X • Version 2.0 • Date of issue: 2023-09-08

#### **SECTION 1: Identification**

##### **1.1 GHS Product identifier**

Product name PA-311 E Membrane Adhesive

##### **1.3 Recommended use of the chemical and restrictions on use**

None

##### **1.4 Supplier's details**

Name Siplast  
Address 14911 Quorum Drive  
Suite 600  
Dallas Texas 75254  
USA

Telephone (800)922-8800  
email info@siplast.com

##### **1.5 Emergency phone number**

(800)-424-9300

#### **SECTION 2: Hazard identification**

##### **General hazard statement**

Not Classified

##### **2.1 Classification of the substance or mixture**

###### **GHS classification in accordance with: OSHA (29 CFR 1910.1200)**

- Flammable liquids, Cat. 3
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A
- Germ cell mutagenicity, Cat. 1A
- Carcinogenicity, Cat. 1A
- Specific target organ toxicity (single exposure), Cat. 3
- Specific target organ toxicity (single exposure), Cat. 1
- Acute toxicity, inhalation, Cat. 5
- Germ cell mutagenicity, Cat. 1B

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- Specific target organ toxicity (repeated exposure), Cat. 1

### 2.2 GHS label elements, including precautionary statements

#### Pictograms



1. Flame; 2. Exclamation mark; 3. Health hazard

#### Signal word

**Danger**

#### Hazard statement(s)

H226 Flammable liquid and vapor  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation  
H350 May cause cancer [route]

#### Precautionary statement(s)

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 dust/fume/gas/mist/vapors/spray.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 Wash hands and arms 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.  
P302+P352 IF ON SKIN: Wash with plenty of water/...  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P312 IF INHALED: Call a POISON CENTER/doctor/... if you feel unwell.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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+P311 IF exposed or concerned: Call a POISON CENTER/doctor/...  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P312 Call a POISON CENTER/doctor/.../ if you feel unwell.  
P314 Get medical advice/attention if you feel unwell.  
P321 Specific treatment (see Section 4 of this SDS).  
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 reuse.  
P370+P378 In case of fire: Use Carbon Dioxide (CO<sub>2</sub>) or dry chemical powder to extinguish.  
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.

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P501

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

### 2.3 Other hazards which do not result in classification

Causes serious eye irritation. May cause respiratory irritation. May cause genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure. Flammable liquid and vapor. May cause drowsiness or dizziness. Causes skin irritation.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

##### 1. Bitumens extracts of steam-refined and air-refined

Concentration 40 - 60 % (weight)  
CAS no. 8052-42-4

- Carcinogenicity, Cat. 1B

##### 2. Stoddard solvent

Concentration 10 - 20 % (weight),  
EC no. 292-695-4  
CAS no. 8052-41-3  
Index no. 649-403-00-9

- Flammable liquids, Cat. 3
- Aspiration hazard, Cat. 1
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity (repeated exposure), Cat. 1
- Hazardous to the aquatic environment, long-term (chronic), Cat. 2

H340 May cause genetic defects [route]  
H350 May cause cancer [route]

##### 3. Naptha Solvent, Light aromatic

Concentration 1 - 10 % (weight)  
CAS no. 64742-95-6

- Aspiration hazard, Cat. 1
- Carcinogenicity, Cat. 2
- Flammable liquids, Cat. 3
- Specific target organ toxicity (single exposure), Cat. 3

H226 Flammable liquid and vapor  
H304 May be fatal if swallowed and enters airways  
H335 May cause respiratory irritation

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H336  
H351

May cause drowsiness or dizziness  
Suspected of causing cancer [route]

**4. 1,2,4-trimethylbenzene**

Concentration	1 - < 3 % (weight)
EC no.	202-436-9
CAS no.	95-63-6
Index no.	601-043-00-3

- Flammable liquids, Cat. 3
- Acute toxicity, inhalation, Cat. 4
- Specific target organ toxicity (single exposure), Cat. 3
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A
- Hazardous to the aquatic environment, long-term (chronic), Cat. 2

H226	Flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects

**5. XYLENES (MIXED)**

Concentration	0 - <= 1 % (weight)
EC no.	215-535-7
CAS no.	1330-20-7
Index no.	601-022-00-9

- Flammable liquids, Cat. 3
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, dermal, Cat. 4
- Skin corrosion/irritation, Cat. 2

H226	Flammable liquid and vapor
H312	Harmful in contact with skin
H315	Causes skin irritation
H332	Harmful if inhaled
SCLs/M-factors/ATEs	*

**6. Crystalline Silica**

Concentration	0 - <= 1 % (weight)
CAS no.	14808-60-7

- Carc. 1B: H350

## **SECTION 4: First-aid measures**

### **4.1 Description of necessary first-aid measures**

General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
If inhaled	Move to fresh air. Call a physician if symptoms develop or persist.
In case of skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
In case of eye contact	Rinse with water. Get medical attention if irritation develops and persists.
If swallowed	Rinse mouth. Get medical attention if symptoms occur.
Personal protective equipment for first-aid responders	No data available.

### **4.2 Most important symptoms/effects, acute and delayed**

Direct contact with eyes may cause temporary irritation.

### **4.3 Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

### **5.1 Suitable extinguishing media**

Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>).

### **5.2 Specific hazards arising from the chemical**

During fire, gases hazardous to health may be formed.

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Stoddard solvent: Carbon oxides

### **5.3 Special protective actions for fire-fighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### **Further information**

No data available.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

### **6.2 Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

### **6.3 Methods and materials for containment and cleaning up**

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is

possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

**Reference to other sections**

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices. Hydrogen sulfide (H<sub>2</sub>S) may be given off when this material is heated. Do not depend on sense of smell for warning.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Store locked up. Store in a well-ventilated place. Store in cool place.

**Specific end use(s)**

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**CAS: 1330-20-7**

XYLENES (MIXED)

Cal/OSHA: 100 ppm, (ST) 150 ppm, (C) 300 ppm PEL inhalation; OSHA: 100 ppm PEL inhalation;

**CAS: 8052-41-3**

Stoddard solvent

Cal/OSHA: 100 ppm PEL-C inhalation; NIOSH: 350 mg/m<sup>3</sup> REL-TWA inhalation; OSHA: 500 ppm (2900 mg/m<sup>3</sup>) PEL-TWA inhalation

### 8.2 Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

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

**Pictograms**



**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection**

Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.

**Body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

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In case of insufficient ventilation, wear suitable respiratory equipment.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

#### Control banding approach

No data available.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance, such as physical state and colour	Liquid
Colour	Not available.
Odour	Not available.
Odour threshold	Not available.-94 °
Melting point and freezing point	-94 °F (-70 °C) estimated
Boiling point or initial boiling point and boiling range	302 °F (150 °C) estimated
Flammability	Not applicable.
Lower and upper explosion limit or lower and upper flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	450 °F (232.22 °C) estimatedNot available.
Decomposition temperature	Not available.
Oxidising properties	No data available.
pH	Not available.
Kinematic viscosity	Not available.
Solubility	Not available.
Partition coefficient — n-octanol/water (logarithmic value)	Not available.
Vapour pressure	1.07 hPa estimated
Evaporation rate	Not available.
Density and relative density	Not available.
Relative vapour density	Not available.
Particle characteristics	Not available.

### Supplemental information regarding physical hazard classes

No data available.

### Further safety characteristics (supplemental)

No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

### 10.2 Chemical stability

Material is stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous polymerization does not occur.

**10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**10.5 Incompatible materials**

Acids. Strong oxidizing agents. Fluorine.

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Stoddard solvent: Strong oxidizers

**10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

**SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

Direct contact with eyes may cause temporary irritation. Causes serious eye irritation.

// ----- From the Suggestion report (09/08/2023, 3:29 PM) ----- //

The ATE (gas inhalation) of the mixture is: 150000 ppmV

**Skin corrosion/irritation**

Asphalt cement: Asphalt fumes from heated material may cause eye, respiratory tract and skin irritation, as well as nausea and headaches. These fumes may cause dermatitis and acne-like lesions as well as mild keratosis on prolonged and repeated exposure

**Serious eye damage/irritation**

Direct contact with eyes may cause temporary irritation. Causes serious eye irritation.

**Respiratory or skin sensitization**

Prolonged inhalation may be harmful. Vapors have a narcotic effect and may cause headache,

fatigue, dizziness and nausea.

**Germ cell mutagenicity**

May cause genetic defects.

**Carcinogenicity**

May cause cancer.

**Reproductive toxicity**

This product is not expected to cause reproductive or developmental effects.

**Summary of evaluation of the CMR properties**

Asphalt cement: This material contains petroleum asphalt. IARC has determined that there is sufficient evidence for the carcinogenicity of extracts of steam-refined bitumens (asphalts), air-refined bitumen and pooled mixtures of steam and air-refined bitumen in experimental animals. IARC has determined that there is inadequate evidence that bitumen alone is carcinogenic to humans.



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#### Specific target organ toxicity (STOT) - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

#### Specific target organ toxicity (STOT) - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

Not an aspiration hazard.

#### Additional information

No data available.

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#### XYLENES (MIXED): \*TOXICITY:

typ. dose mode specie amount unit other

TCLo ihl hmn 200 ppm

LCLo ihl man 10000 ppm/6H

LD50 orl rat 4300 mg/kg

LC50 ihl rat 5000 ppm/4H

LD50 scu rat 1700 mg/kg

LD50 ipr mus 1548 mg/kg

LDLo ipr gpg 2000 mg/kg

LDLo ipr mam 2000 mg/kg

LCLo ihl gpg 450 ppm

LDLo orl hmn 50 mg/kg

\*AQTX/TLM96: 100-10 ppm

#### \*SAX TOXICITY EVALUATION:

THR = MODERATE via inhalation and oral routes.

#### \*CARCINOGENICITY:

Review: IARC Cancer Review: Human Inadequate Evidence

IARC Cancer Review: Animal Inadequate Evidence

IARC: Not classifiable as a human carcinogen (Group 3) [610]

Status: NTP Carcinogenesis Studies (Gavage); No Evidence: Male and Female Rat,  
Male and Female Mouse [620]

#### \*MUTATION DATA:

test lowest dose | test lowest dose

----- | -----

cyt-smc 1 mmol/tube |

#### \*TERATOGENICITY:

Reproductive Effects Data:

TCLo: ihl-rat 1000 mg/m3/24H (9-14D preg)

TCLo: ihl-rat 50 mg/m3/6H (1-21D preg)

TCLo: ihl-rat 600 mg/m3/24H (7-15D preg)

TDLo: orl-mus 20600 ug/kg (6-15D preg)

TCLo: ihl-mus 4000 ppm/6H (6-12D preg)

TDLo: orl-mus 31 mg/kg (6-15D preg)

TCLo: ihl-mus 2000 ppm/6H (6-12D preg)

#### \*STANDARDS, REGULATIONS & RECOMMENDATIONS:

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OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z  
Transitional Limit: PEL-TWA 100 ppm [610]  
Final Limit: PEL-TWA 100 ppm; STEL 150 ppm [610]  
ACGIH: TLV-TWA 100 ppm; STEL 150 ppm [610]  
NIOSH Criteria Document: Recommended Exposure Limit to this compound-air:  
TWA 100 ppm; Ceiling Limit 200 ppm/10M [015,610]  
NFPA Hazard Rating: Health (H): 2  
Flammability (F): 3  
Reactivity (R): 0  
H2: Materials hazardous to health, but areas may be entered freely with  
full-faced mask self-contained breathing apparatus which provides  
eye protection (see NFPA for details).  
F3: Materials which can be ignited under almost all normal temperature  
conditions (see NFPA for details).  
R0: Materials which are normally stable even under fire exposure conditions  
and which are not reactive with water (see NFPA for details).

#### \*OTHER TOXICITY DATA:

##### Skin and Eye Irritation Data:

eye-hmn 200 ppm

skn-rbt 100% MOD

skn-rbt 500 mg/24H MOD

eye-rbt 87 mg MLD

eye-rbt 5 mg/24H SEV

Standards and Regulations: DOT-Hazard: Flammable liquid; Label: Flammable  
liquid

DOT-IMO: Flammable or Combustible liquid; Label:  
Flammable liquid

Status: NIOSH Analytical Methods: see hydrocarbons, aromatic, 1501

EPA TSCA Chemical Inventory, 1986

EPA TSCA 8(a) Preliminary Assessment Information, Final Rule

EPA Genetox Program 1986, Negative: In vitro SCE-human lymphocytes;

In vitro SCE-human

EPA TSCA Test Submission (TSCATS) Data Base, December 1986

Meets criteria for proposed OSHA Medical Records Rule

## SECTION 12: Ecological information

### Toxicity

No data available.

### Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

### Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

BENZENE, DIMETHYL 3.12 - 3.2

Mineral Spirits 3.16 - 7.15

### Mobility in soil

No data available.

### Results of PBT and vPvB assessment

No data available.

**Endocrine disrupting properties**

No data available.

**Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**SECTION 13: Disposal considerations**

**Disposal methods**

**Product disposal**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001.

**Packaging disposal**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Waste treatment**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Sewage disposal**

No data available.

**Other disposal recommendations**

Dispose in accordance with all applicable regulations.

**SECTION 14: Transport information**

**DOT (US)**

UN Number: UN1993

Class: 3

Packing Group: II

Proper Shipping Name: Flammable liquids, n.o.s. (ASPHALT RQ = 210 LBS, Mineral Spirits), MARINE POLLUTANT (NAPHTHALENE II)

Reportable quantity (RQ):

Marine pollutant: YES

Poison inhalation hazard:

**IMDG**

UN Number: 1993

Class: 3

Packing Group: II

EMS Number: FC-E, S-E

Proper Shipping Name: UN 1993, n.o.s. Flammable liquids, n.o.s. (ASPHALT RQ = 210 LBS, Mineral Spirits), MARINE POLLUTANT, 3, II (NAPHTHALENE)

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**IATA**

UN Number: UN1993

Class: 3

Packing Group: II

Proper Shipping Name: UN 1993, n.o.s. Flammable liquids, n.o.s. (ASPHALT RQ = 210 LBS, Mineral Spirits),  
MARINE POLLUTANT, 3, II  
(NAPHTHALENE)

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations specific for the product in question**

**California Prop. 65 Components**

WARNING: This product can expose you to chemicals including ASPHALT, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Canadian Domestic Substances List (DSL)**

Chemical name: Asphalt

CAS: 8052-42-4

Chemical name: Stoddard solvent

CAS: 8052-41-3

Chemical name: Benzene, dimethyl-

CAS: 1330-20-7

**CERCLA Hazardous Substance List**

Benzene, DiMethyl (CAS 1330-20-7) Listed

**Massachusetts Right To Know Components**

Chemical name: Xylene (mixed isomers)

CAS number: 1330-20-7

**New Jersey Right To Know Components**

Common name: ASPHALT

CAS number: 8052-42-4

Common name: XYLENES

CAS number: 1330-20-7

**OSHA Specifically Regulated Substances**

Quartz (CAS 14808-60-7) Cancer, lung effects, immune system effects, kidney effects.

**Pennsylvania Right To Know Components**

Chemical name: Asphalt

CAS number: 8052-42-4

Chemical name: Benzene, dimethyl-

CAS number: 1330-20-7

**Safe Drinking Water Act**

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Not Regulated

**SARA 302 Components**

Not Listed

Chemical name: Stoddard solvent

CAS: 8052-41-3

**SARA 304 Emergency Release notification**

Not Regulated

**SARA 311/312 Hazards**

Benzene, DiMethyl (CAS 1330-20-7) Listed

**SARA 313 Components**

1,2,4-TRIMETHYLBENZENE (CAS 95-63-6) % by weight 1 - < 3

Chemical name: Stoddard solvent

CAS: 8052-41-3

**Toxic Substances Control Act (TSCA) Inventory**

Not Regulated

**15.2 Chemical Safety Assessment**

Classified hazard categories:

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Hazard not otherwise classified (HNOC)

**NFPA Rating**



**SECTION 16: Other information**

New SDS format

**16.1 Further information/disclaimer**

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.