



SIPLAST

Safety Data Sheet PA-311 R Adhesive

SDS no. CHSND39X • Version 2.0 • Date of issue: 2023-09-11

SECTION 1: Identification

1.1 GHS Product identifier

Product name PA-311 R 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
- Carcinogenicity, Cat. 1A
- Specific target organ toxicity (single exposure), Cat. 3
- Specific target organ toxicity (single exposure), Cat. 1
- 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
H340	May cause genetic defects [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 ₂) 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.
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 - 70 % (weight)
CAS no. 8052-42-4

- Carcinogenicity, Cat. 1B

2. Naptha Solvent, Light aromatic

Concentration 5 - 25 % (weight)
CAS no. 64742-95-6

- Flammable liquids, Cat. 3
- STOTE 3

H304 May be fatal if swallowed and enters airways
H336 May cause drowsiness or dizziness

3. Mineral spirits

Concentration 15 - 30 % (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
- Hazardous to the aquatic environment, long-term (chronic), Cat. 2

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

4. Attapulгите*

Concentration 2 - 9 % (weight)

5. Limestone

Concentration	15 - 30 % (weight)
EC no.	215-279-6
CAS no.	1317-65-3

6. Microcrystalline cellulose

Concentration	2 % (weight)
EC no.	232-674-9
CAS no.	9004-34-6

- US Combustible dust

7. Sand

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

- Carc. 1B: H350

Trade secret statement (OSHA 1910.1200(i))

No data available.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	No data available.
If inhaled	Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	Remove contaminated clothing and wash with soap and water.
In case of eye contact	If foreign matter enters eyes, immediately flush with large amounts of potable water for at least 15 minutes or until irritation subsides. Get medical attention if irritation persists.
If swallowed	Consult a physician if unusual reaction is noted. Product is not intended nor is it likely to be ingested or eaten.

Personal protective equipment for first-aid responders

No data available.

4.2 Most important symptoms/effects, acute and delayed

Symptoms, Acute & Delayed Refer to Section 11 - Toxicological Information
Immediate Medical Attention

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

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Foam CO2 or dry chemical extinguishers.

5.2 Specific hazards arising from the chemical

H2S, CO, CO2 and SOX.

5.3 Special protective actions for fire-fighters

Do not enter fire area without proper equipment, including respiratory protection

Firefighting instruction Do not use direct water on substance. Water and foam may cause frothing. Treat as a fuel fire.

Further information

Fire Hazard Combustible liquid

Flash Point > 105 °F Tag Closed Cup LEL: 0.9% UEL: 6.0%

Explosion Hazard There is a potential for containers to rupture violently in fires. Vapors from product may explode if ignited in a confined space.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing to avoid eye and skin contact.

6.2 Environmental precautions

Avoid release into the environment. Report releases as required by local, state and federal authorities.

6.3 Methods and materials for containment and cleaning up

If your facility or operation has an "oil or hazardous substance contingency plan", activate the procedure. Take immediate steps to stop and contain the spill. Shut off all sources of ignition. Keep people away. Eliminate sources of ignition. Recover free product, add limestone, earth, or other suitable absorbents. Minimize skin contact and avoid breathing vapors. Ventilate confined spaces. Keep product out of sewers and waterways by diking or impounding. Dispose of in an approved facility,

Reference to other sections

see Section 13, Disposal Considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use this product with adequate ventilation. Material is COMBUSTIBLE. Material requires electrical grounding during material transfer process to prevent fire or explosion risk from static accumulation and discharge. All electrical equipment in storage and handling areas should be installed per NFPA requirements. Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as described in Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers cool, dry and away from sources of ignition. Keep containers tightly closed when not in use. DO NOT STORE NEAR HEAT, SPARKS, FLAME, OTHER SOURCES OF IGNITION OR STRONG OXIDIZERS. Keep only in original container.

Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS: 12174-11-7

Attapulгите

ACGIH: Not Established TLV® inhalation; NIOSH: Not Established REL-TWA inhalation; US/OSHA: Not Established PEL-TWA inhalation

CAS: 1317-65-3

Limestone

ACGIH: 10 mg/m³ (total) TLV® inhalation; NIOSH: 5.0 mg/m³ (respirable), 10 mg/m³ (total) REL-TWA inhalation; US/OSHA: 5.0 mg/m³ (respirable), 15 mg/m³ (total) PEL inhalation

CAS: 14808-60-7

Crystalline Silica

ACGIH: 0.025 mg/m³ TWA, (respirable) TLV® inhalation; NIOSH: 0.05 mg/m³ TWA, (respirable) REL-TWA inhalation; US/OSHA: 0.1 mg/m³ TWA, (respirable) PEL-TWA inhalation

CAS: 64742-95-6

Naptha Solvent, Light aromatic

ACGIH: Not Established TLV® inhalation; NIOSH: 350 mg/m³ TWA, 1800 mg/m³ (15 min), 1800 mg/m³ (15 min) REL-TWA inhalation; US/OSHA: 2,000 mg/m³ TWA PEL-TWA inhalation

CAS: 8052-41-3 (EC: 292-695-4)

Mineral spirits

350 mg/m³ TWA, 1800 mg/m³ (15 min) REL-TWA inhalation; ACGIH: 100 ppm TWA TLV® inhalation; US/OSHA: 2,900 mg/m³ TWA PEL-TWA inhalation

CAS: 8052-42-4

Bitumens extracts of steam-refined and air-refined

ACGIH: 0.5 mg/m³ TWA, (respirable) 8 hour TLV® inhalation; NIOSH: 5 mg/m³ Ceiling, (15 min) REL-C inhalation; US/OSHA (): Not Established PEL-TWA inhalation

CAS: 9004-34-6

Cellulose, microcrystalline

ACGIH: 10 mg/m³ (total) TLV® inhalation; NIOSH: 5.0 mg/m³ (respirable), 10 mg/m³ (total) REL-TWA inhalation; US/OSHA: 5.0 mg/m³ (respirable), 15 mg/m³ (total) PEL-TWA inhalation

8.2 Appropriate engineering controls

Adequate ventilation systems as needed to control concentrations of airborne
Controls contaminants below applicable threshold limit values.

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

Pictograms



Eye/face protection

Safety glasses with side shields

Follow the national guidelines concerning the use of protective eye wear.

Skin protection

Normal work clothing (long sleeved shirts, long pants and smooth bottom work shoes) is recommended.

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

Use NIOSH or MSHA approved respiratory protective equipment when airborne exposure limits are exceeded.

Thermal hazards

No data available.

Control banding approach

No data available.

Environmental exposure controls

Follow best practice for site management and disposal of waste.

Controls

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance, such as physical state and colour	Black fibered mastic
Colour	Black
Odour	Slight hydrocarbon odor
Odour threshold	No data available.
Melting point and freezing point	No data available.
Boiling point or initial boiling point and boiling range	>212°F; ≤100 °C
Flammability	Not applicable.
Lower and upper explosion limit or lower and upper flammability limit	0.9 % - 6.0 %
Flash point	>105 °F; >40.5 °C
Explosive properties	No data available.

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Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidising properties	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	Insoluble
Partition coefficient — n-octanol/water (logarithmic value)	No data available.
Vapour pressure	No data available.
Evaporation rate	No data available.
Density and relative density	Density (lb/gal) <10.0
Relative vapour density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes

Percent Volatile 20 - 30%

VOC 2.08 lb/gal; 250 g/L

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Upon combustion CO and CO₂ are formed

10.2 Chemical stability

Stable at room temperature in closed containers under advised storage and handling conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Strong oxidizers, no spark or open flame, direct sunlight and high temperatures

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, hydrogen sulfide and sulfur dioxide

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No data available.

Skin corrosion/irritation

Acute (Immediate) Irritation and inflammation. Allergic skin reaction may occur. Dermatitis

Chronic (Delayed) No data available

Serious eye damage/irritation

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Acute (Immediate) Conjunctivitis, irritation, tearing and burning
Chronic (Delayed) No data available

Respiratory or skin sensitization

Acute (Immediate) Irritation to mucus membranes and respiratory tract, nausea, dizziness and headache
Chronic (Delayed) No data available

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Asphalt (8052-42-4)
IARC: Group 2B - Possible Carcinogen
Calcium Carbonate (1317-65-3)
IARC: Group 2B - Possible Carcinogen
Attapulgit (12174-11-7)
IARC: Group 2B - Possible Carcinogen
Crystalline silica (14808-60-7)
IARC: Group 1 - Known Human Carcinogen (IARC Monograph 68 [1997])
ACGIH: A2 - Suspected Human Carcinogen
NTP: Known Human Carcinogen
Carcinogenic Effects When used under normal conditions, this product is not considered a carcinogen.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

OSHA HCS 2012 • STOT RE Hazard Category 1

Aspiration hazard

Not an aspiration hazard.

Additional information

No data available.

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

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*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:
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

Cellulose, microcrystalline: From NIH:

rabbit LD50 skin 2gm/kg (2000 mg/kg) Toxicology Letters. Vol. (Suppl), Pg. 243, 1992.

rat LC50 inhalation 5800mg/m³/4H (5800 mg/kg) FAO Nutrition Meetings Report Series. Vol. 50A, Pg. 83, 1972.

rat LD50 intraperitoneal 31600mg/kg (31600 mg/kg) Toxicology Letters. Vol. (Suppl), Pg. 243, 1992.

rat LD50 oral 5gm/kg (5000 mg/kg) Toxicology Letters. Vol. (Suppl), Pg. 243, 1992.

SECTION 12: Ecological information

Toxicity

This product may cause adverse environmental effects if used improperly or release to the environment through a spill. Employ best management practices to prevent this material from entering storm sewer systems, waterways or otherwise impacting plant and animal species.

Persistence and degradability

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

Bioaccumulative potential

No data available.

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 data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of in an environmentally safe manner and in accordance with governmental regulations. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF

IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. For work on tanks, refer to OSHA regulation ANSI Z49.1 and other governmental and industrial references

pertaining to cleaning, repairing, welding or other contemplated operations.

This is "RCRA" regulated hazardous waste [D001 Ignitable per 40 CFR 260.21] and must be disposed in a permitted facility. Containers are hazardous waste if not emptied completely (less than 1 inch of residue).

The transportation, storage, treatment and dispose of this waste must be conducted in accordance with all applicable

federal, state and local regulations.

SECTION 13 DISPOSAL CONSIDERATIONS SECTION

Packaging disposal

No data available.

Waste treatment

No data available.

Sewage disposal

No data available.

Other disposal recommendations

No data available.

SECTION 14: Transport information

DOT (US)

Non-bulk packages (< 119 gl capacity) are exempt from DOT HAZMAT requirements

Bulk packages @ less than 105 °F (119 gl or greater) Tars, liquid, 3, UN1999, PG II

UN Number: UN1999

Class: 3

Packing Group: II

Proper Shipping Name: UN 1999, Tars, liquid, 3, , PG II

Bulk packages above 105 °F (119 gl or greater)

Elevated Temperature Liquid,

Flammable, n.o.s., 3, UN3256, PG III

IMDG

UN Number: 1999

Class: 3

Packing Group: II

EMS Number: FC-E, S-E

Proper Shipping Name: UN 1999, Tars, Liquid, 3, II

IATA

UN Number: 1999

Class: 3

Packing Group: II

EMS Number: FC-E, S-E

Proper Shipping Name: UN 1999, Tars, Liquid, 3, II

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.

Canadian Domestic Substances List (DSL)

Components are listed

Massachusetts Right To Know Components

Petroleum Asphalt: yes
Hydrocarbon Solvent: no
Mineral Spirits: yes
Attapulgite: no
Calcium Carbonate: yes
Cellulose: no
Crystalline Silica: yes

New Jersey Right To Know Components

Petroleum Asphalt: yes
Hydrocarbon Solvent: no
Mineral Spirits: yes
Attapulgite: no
Calcium Carbonate: no
Cellulose: yes
Crystalline Silica: no

Pennsylvania Right To Know Components

Petroleum Asphalt: yes
Hydrocarbon Solvent: no
Mineral Spirits: yes
Attapulgite: no
Calcium Carbonate: yes
Cellulose: yes
Crystalline Silica: yes

SARA 302 Components

Not Listed

SARA 311/312 Hazards

Immediate Hazards, Delayed Hazards, Fire Hazards

SARA 313 Components

None Present

Toxic Substances Control Act (TSCA) Inventory

Components are listed

15.2 Chemical Safety Assessment

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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.

NFPA Rating



SECTION 16: Other information

New SDS format

16.1 Further information/disclaimer

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.