



## Safety Data Sheet

prepared to UN GHS Revision 3

### 1. Identification of the Substance/Mixture and the Company/Undertaking

- 1.1 Product Identifier** 117PA1NL
- Product Name:** PLASITE 4500 PART A **Revision Date:** 06/08/2018
- 1.2 Relevant identified uses of the substance or mixture and uses advised against** Component of multicomponent industrial coatings - Industrial use. **Supersedes Date:** 05/30/2015
- 1.3 Details of the supplier of the safety data sheet**
- Manufacturer:** Carboline Company  
2150 Schuetz Road  
St. Louis, MO USA 63146
- Regulatory / Technical Information:  
Contact Carboline Technical Services at  
1-800-848-4645
- Datasheet Produced by:** Alotta, Vicki - ehs@stoncor.com
- 1.4 Emergency telephone number:** CHEMTREC 1-800-424-9300 (Inside US)  
CHEMTREC +1 703 5273887 (Outside US)  
HEALTH - Pittsburgh Poison Control 1-412-681-6669

### 2. Hazard Identification

#### 2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, Chronic, category 2  
 Carcinogenicity, category 1A  
 Eye Irritation, category 2  
 STOT, single exposure, category 3, RTI  
 Skin Irritation, category 2  
 Skin Sensitizer, category 1

## 2.2 Label elements

### Symbol(s) of Product



### Signal Word

danger

### Named Chemicals on Label

MICA, MICROCRYSTALLINE SILICA, EPOXY RESIN, ALKYL GLYCIDYL ETHER

### HAZARD STATEMENTS

|   |         |  |
|---|---------|--|
| Skin Irritation, category 2                               | H315    | Causes skin irritation.                          |
| Skin Sensitizer, category 1                               | H317    | May cause an allergic skin reaction.             |
| Eye Irritation, category 2                                | H319    | Causes serious eye irritation.                   |
| STOT, single exposure, category 3, RTI                    | H335    | May cause respiratory irritation.                |
| Carcinogenicity, category 1A                              | H350-1A | May cause cancer.                                |
| Hazardous to the aquatic environment, Chronic, category 2 | H411    | Toxic to aquatic life with long lasting effects. |

### PRECAUTION PHRASES

|              |   |
|--------------|---|
| P201         | Obtain special instructions before use.   |
| P202         | Do not handle until all safety precautions have been read and understood.   |
| P261         | Avoid breathing dust/fume/gas/mist/vapours/spray.   |
| P273         | Avoid release to the environment.   |
| P280         | Wear protective gloves/protective clothing/eye protection/face protection.  |
| P284         | Wear respiratory protection.  |
| P302+352     | IF ON SKIN: Wash with plenty of soap and water.   |
| P304+340     | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                    |
| P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. |
| P308+313     | IF exposed or concerned: Get medical advice/attention   |
| P333+313     | If skin irritation or rash occurs: Get medical advice/attention.  |
| P391         | Collect spillage.   |

## 2.3 Other hazards

No Information

### Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

## 3. Composition/Information On Ingredients

### 3.2 Mixtures

#### Hazardous Ingredients

| <u>CAS-No.</u> | <u>Chemical Name</u>    | <u>%</u> |
|----------------|-------------------------|----------|
| 25068-38-6     | EPOXY RESIN             | 50-75    |
| 68609-97-2     | ALKYL GLYCIDYL ETHER    | 10-25    |
| 12001-26-2     | MICA                    | 10-25    |
| 13463-67-7     | TITANIUM DIOXIDE        | 2.5-10   |
| 14808-60-7     | MICROCRYSTALLINE SILICA | 2.5-10   |

100-51-6 BENZYL ALCOHOL  
1333-86-4 CARBON BLACK

1.0-2.5  
0.1-1.0

| <u>CAS-No.</u> | <u>GHS Symbols</u> | <u>GHS Hazard Statements</u> | <u>M-Factors</u> |
|----------------|--------------------|------------------------------|------------------|
| 25068-38-6     | GHS07-GHS09        | H315-317-319-411             | 0                |
| 68609-97-2     | GHS07              | H315-317-335                 | 0                |
| 12001-26-2     | GHS07              | H319-335                     | 0                |
| 13463-67-7     |                    |                              | 0                |
| 14808-60-7     | GHS08              | H350-372                     | 0                |
| 100-51-6       | GHS07              | H302-312-319-332             | 0                |
| 1333-86-4      |                    |                              | 0                |

**Additional Information:** The text for GHS Hazard Statements shown above (if any) is given in Section 16.

## 4. First-aid Measures

### 4.1 Description of First Aid Measures

**AFTER INHALATION:** Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

**AFTER SKIN CONTACT:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation persists, call a physician.

**AFTER EYE CONTACT:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**AFTER INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control centre or doctor immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

May cause sensitization by skin contact. Irritating to eyes and skin. May be harmful if swallowed.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

When symptoms persist or in all cases of doubt seek medical advice.

## 5. Fire-fighting Measures

### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Vapors may spread long distances and ignite.

### 5.2 Special hazards arising from the substance or mixture

No Information

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Evacuate personnel to safe areas. Use NIOSH approved respiratory protection. Use water spray to cool unopened containers.

## 6. Accidental Release Measures

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

Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. For personal protection see section 8.

### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

### 6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g.

sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

**INSTRUCTIONS FOR SAFE HANDLING :** Keep containers dry and tightly closed to avoid moisture absorption and contamination. Prepare the working solution as given on the label(s) and/or the user instructions. Do not breathe vapours or spray mist. Ensure all equipment is electrically grounded before beginning transfer operations. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation/personal protection. Wash thoroughly after handling.

**PROTECTION AND HYGIENE MEASURES :** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

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

**CONDITIONS TO AVOID:** Heat, flames and sparks.

**STORAGE CONDITIONS:** Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

### 7.3 Specific end use(s)

No specific advice for end use available.

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Ingredients with Occupational Exposure Limits (US)

| <u>Name</u>             | <u>CAS-No.</u> | <u>ACGIH TLV-TWA</u>                    | <u>ACGIH TLV-STEL</u> | <u>OSHA PEL-TWA</u>                    | <u>OSHA PEL-CEILING</u> |
|-------------------------|----------------|---|-----------------------|--|-------------------------|
| EPOXY RESIN             |                | N/E                                     | N/E                   | N/E                                    | N/E                     |
| ALKYL GLYCIDYL ETHER    |                | N/E                                     | N/E                   | N/E                                    | N/E                     |
| MICA                    |                | 3 MGM3                                  | N/E                   | 3 MGM3                                 | N/E                     |
| TITANIUM DIOXIDE        |                | 10 MGM3                                 | N/E                   | 10 MGM3                                | N/E                     |
| MICROCRYSTALLINE SILICA |                | 0.025 mg/m <sup>3</sup><br>(respirable) | N/E                   | 0.05 mg/m <sup>3</sup><br>(respirable) | N/E                     |
| BENZYL ALCOHOL          |                | N/E                                     | N/E                   | N/E                                    | N/E                     |
| CARBON BLACK            |                | 3.0 MG/M3                               | N/E                   | 3.5 MG/M3                              | N/E                     |

**FURTHER INFORMATION:** Refer to the regulatory exposure limits for the workforce enforced in each country.

### 8.2 Exposure controls

#### Personal Protection

**RESPIRATORY PROTECTION:** In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Use only with ventilation to keep levels below exposure guidelines reported in this document. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use State or federally approved supplied air respirator. For silica containing coatings in a liquid state, and/or if no exposure limits are established above, air-supplied respirators are generally not required.

**EYE PROTECTION:** Ensure that eyewash stations and safety showers are close to the workstation location. Safety glasses with side-shields.

**HAND PROTECTION:** Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Impervious gloves. Request information on glove permeation properties from the glove supplier. Lightweight protective clothing

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Use only in an area equipped with explosion proof exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

|   |                                |
|---|--------------------------------|
| <b>Appearance:</b>                                  | Viscous Liquid, Various Colors |
| <b>Physical State</b>                               | Liquid                         |
| <b>Odor</b>   | Epoxy                          |
| <b>Odor threshold</b>                               | N/D                            |
| <b>pH</b>   | N/D                            |
| <b>Melting point / freezing point (°C)</b>          | N/D                            |
| <b>Boiling point/range (°C)</b>                     | 149 F (65 C) - 513 F (267 C)   |
| <b>Flash Point, (°C)</b>                            | 252                            |
| <b>Evaporation rate</b>                             | Slower Than Ether              |
| <b>Flammability (solid, gas)</b>                    | Not determined                 |
| <b>Upper/lower flammability or explosive limits</b> | 0.9 - 21.0                     |
| <b>Vapour Pressure, mmHg</b>                        | N/D                            |
| <b>Vapour density</b>                               | Heavier than Air               |
| <b>Relative density</b>                             | Not determined                 |
| <b>Solubility in / Miscibility with water</b>       | N/D                            |
| <b>Partition coefficient: n-octanol/water</b>       | Not determined                 |
| <b>Auto-ignition temperature (°C)</b>               | Not determined                 |
| <b>Decomposition temperature (°C)</b>               | Not determined                 |
| <b>Viscosity</b>                                    | Unknown                        |
| <b>Explosive properties</b>                         | Not determined                 |
| <b>Oxidising properties</b>                         | Not determined                 |

### 9.2 Other information

|  |            |
|--|------------|
| <b>VOC Content g/l:</b>                    | 0          |
| <b>Specific Gravity (g/cm<sup>3</sup>)</b> | app. 1.253 |

## 10. Stability and Reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4 Conditions to avoid

Heat, flames and sparks.

#### 10.5 Incompatible materials

Strong oxidizing agents.

#### 10.6 Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

## 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity:

Oral LD50: N/D

Inhalation LC50: N/D

Irritation: Unknown

Corrosivity: Unknown

Sensitization: Unknown

Repeated dose toxicity: Unknown

Carcinogenicity: Unknown

Mutagenicity: Unknown

Toxicity for reproduction: Unknown

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

| <u>CAS-No.</u> | <u>Chemical Name</u>    | <u>Oral LD50</u>        | <u>Dermal LD50</u>          | <u>Vapor LC50</u>          |
|----------------|-------------------------|-------------------------|-----------------------------|----------------------------|
| 25068-38-6     | EPOXY RESIN             | 11400 mg/kg, rat, oral  | 23000 mg/kg, dermal, rabbit | >20 mL/kg skin, sensitizer |
| 68609-97-2     | ALKYL GLYCIDYL ETHER    | 17100 mg/kg, oral, rat  |                             | Not Available              |
| 12001-26-2     | MICA                    | Not Available           |                             | Not Available              |
| 13463-67-7     | TITANIUM DIOXIDE        | 25000 mg/kg, oral (rat) | Not Available               | Not Available              |
| 14808-60-7     | MICROCRYSTALLINE SILICA | 22500 mg/kg             | Not Available               | Not Available              |
| 100-51-6       | BENZYL ALCOHOL          | 1230 mg/kg rat, oral    | 2000 mg/kg, dermal, rabbit  | 4176 mg/l / 4h, Inh, Rat   |
| 1333-86-4      | CARBON BLACK            | 8000 mg/kg oral, rat    | Not Available               | Not Available              |

#### Additional Information:

This product contains silica which is classified by IARC as a known human carcinogen (Group 1). Crystalline silica is known to cause silicosis. The classification(s) is/are relevant when exposed to these respirable substances in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities. This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This product may contain Carbon Black, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals.

## 12. Ecological Information

- 12.1 **Toxicity:**
- |                      |         |
|----------------------|---------|
| EC50 48hr (Daphnia): | Unknown |
| IC50 72hr (Algae):   | Unknown |
| LC50 96hr (fish):    | Unknown |
- 12.2 **Persistence and degradability:** Unknown
- 12.3 **Bioaccumulative potential:** Unknown
- 12.4 **Mobility in soil:** Unknown
- 12.5 **Results of PBT and vPvB assessment:** The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.
- 12.6 **Other adverse effects:** Unknown

| <u>CAS-No.</u> | <u>Chemical Name</u>    | <u>EC50 48hr</u>   | <u>IC50 72hr</u> | <u>LC50 96hr</u> |
|----------------|-------------------------|--------------------|------------------|------------------|
| 25068-38-6     | EPOXY RESIN             | 2.1 mg/l (daphnia) | 11 mg/l (algae)  | 1.3 mg/l (fish)  |
| 68609-97-2     | ALKYL GLYCIDYL ETHER    | 7.2 mg/L (Daphna)  | 844 mg/l (Algae) | 1.8 g/L (Fish)   |
| 12001-26-2     | MICA                    | No information     | No information   | No information   |
| 13463-67-7     | TITANIUM DIOXIDE        | No information     | No information   | No information   |
| 14808-60-7     | MICROCRYSTALLINE SILICA | No information     | No information   | No information   |
| 100-51-6       | BENZYL ALCOHOL          | 230 mg/l (Daphnia) | 700 mg/l (Algae) | 10 mg/l (Fish)   |
| 1333-86-4      | CARBON BLACK            | No information     | No information   | No information   |

## 13. Disposal Considerations

- 13.1 **WASTE TREATMENT METHODS:** Do not burn, or use a cutting torch on, the empty drum. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

- |   |                                     |
|---|-------------------------------------|
| 14.1 UN number  | UN3082                              |
| 14.2 UN proper shipping name  | Paint                               |
| Technical name  | N/A                                 |
| 14.3 Transport hazard class(es)   | 9                                   |
| Subsidiary shipping hazard  | N/A                                 |
| 14.4 Packing group  | III                                 |
| 14.5 Environmental hazards  | Marine Pollutant: Yes (Epoxy Resin) |
| 14.6 Special precautions for user   | Unknown                             |
| EmS-No.:  | F-A, S-B                            |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code | Unknown                             |

## 15. Regulatory Information

**15.1 Safety, health and environmental regulations/legislation for the substance or mixture:****U.S. Federal Regulations: As follows -****CERCLA - Sara Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Carcinogenicity, Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

**Sara Section 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
|----------------------|----------------|

No Sara 313 components exist in this product.

**Toxic Substances Control Act:**

All components of this product are either listed on the TSCA Inventory or are exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
|----------------------|----------------|

No TSCA 12(b) components exist in this product.

**U.S. State Regulations: As follows -****New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
|----------------------|----------------|

No NJ Right-To-Know components exist in this product.

**Pennsylvania Right-To-Know**

The following non-hazardous ingredients are present in the product at greater than 3%.

No PA Right-To-Know components exist in this product.

| <u>Chemical Name</u>    | <u>CAS-No.</u> |
|-------------------------|----------------|
| TITANIUM DIOXIDE        | 13463-67-7     |
| MICROCRYSTALLINE SILICA | 14808-60-7     |
| DIISONONYL PHTHALATE    | 28553-12-0     |
| CARBON BLACK            | 1333-86-4      |
| ETHYL BENZENE           | 100-41-4       |
| CUMENE                  | 98-82-8        |
| EPICHLOROHYDRIN         | 106-89-8       |

**Warning**

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
|----------------------|----------------|

|                 |          |
|-----------------|----------|
| EPICHLOROHYDRIN | 106-89-8 |
|-----------------|----------|



**International Regulations: As follows -****\* Canadian DSL:**

No Information

**15.2 Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**16. Other Information****Text for GHS Hazard Statements shown in Section 3 describing each ingredient:**

|      |   |
|------|---|
| H302 | Harmful if swallowed.   |
| H312 | Harmful in contact with skin.                                   |
| H315 | Causes skin irritation.   |
| H317 | May cause an allergic skin reaction.                            |
| H319 | Causes serious eye irritation.                                  |
| H332 | Harmful if inhaled.   |
| H335 | May cause respiratory irritation.                               |
| H350 | May cause cancer.   |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects.                |

**Reasons for revision**

No Information

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.