

Safety Data Sheet prepared to UN GHS Revision 3

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

No Information

1.1 Product Identifier 117P91NL

> **Product Name:** PLASITE 4500 CARTRIDGE KIT Revision Date: 05/30/2015

> > Supercedes Date: 29/05/2015

1.2 Relevant identified uses of the substance or mixture and uses

advised against

1.3 Details of the supplier of the safety data sheet

> Carboline Company Manufacturer:

> > 2150 Schuetz Road St. Louis, MO USA 63146

Regulatory / Technical Information: Contact Carboline Technical Services at

1-800-848-4645

Schlereth, Ken - ehs@stoncor.com **Datasheet Produced by:**

CHEMTREC 1-800-424-9300 (Inside US) Emergency telephone number:

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 STOT, repeated exposure, category 2 STOT, single exposure, category 2 STOT, single exposure, category 3, RTI Skin Corrosion, category 1 Skin Sensitizer, category 1

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

BISPHENOL A, DIETHYLENETRIAMINE, ISOPHORONEDIAMINE, MICA, MICROCRYSTALLINE SILICA, EPOXY RESIN, ALKYL GLYCIDYL ETHER

GHS HAZARD STATEMENTS

Skin Corrosion, category 1	H314-1	Causes severe skin burns and eye damage.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Carcinogenicity, category 1A	H350-1A	May cause cancer.
STOT, single exposure, category 2	H371	May cause damage to organs.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment,	H411	Toxic to aquatic life with long lasting effects.
Chronic, category 2		

GHS PRECAUTION PHRASES

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P284	Wear respiratory protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P314	Get medical advice/attention if you feel unwell.
P333+313 P391	If skin irritation or rash occurs: Get medical advice/attention. Collect spillage.

2.3 Other hazards

Not applicable

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>%</u>
50-75
10-25
10-25
2.5-10
2.5-10
2.5-10
2.5-10
.0-2.5
.0-2.5
.0-2.5
.0-2.5
0.1-1.0

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
25068-38-6	GHS07-GHS09	H315-317-319-335-411	0
68609-97-2	GHS07	H315-317-335	0
12001-26-2	GHS07	H319-335	0
100-51-6	GHS07	H302-312-319-332	0
111-40-0	GHS05-GHS07	H302-312-314-317-331	0
13463-67-7			0
67762-90-7			0
2855-13-2	GHS05-GHS07	H302-312-314-317-412	0
80-05-7	GHS05-GHS07-GHS08-GHS09	H317-318-335-361-411	0
14808-60-7	GHS08	H350-370	0
68609-08-5	GHS09	H411	0
103-83-3	GHS02-GHS05-GHS07	H226-302-312-314-332-412	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

Causes burns. May be harmful if swallowed. Corrosive after repeated contact with skin and mucous membranes.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention is required.

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. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.

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

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 use sparking tools. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation/personal protection.

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)

Name	<u>%</u>	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL- TWA	OSHA PEL- CEILING	OEL Note
EPOXY RESIN	50-75	N/E	N/E	N/E	N/E	
ALKYL GLYCIDYL ETHER	10-25	N/E	N/E	N/E	N/E	
MICA	10-25	3 MGM3	N/E	3 MGM3	N/E	
BENZYL ALCOHOL	2.5-10	N/E	N/E	N/E	N/E	
DIETHYLENETRIAMINE	2.5-10	1 PPM	N/E	4 MGM3	N/E	
TITANIUM DIOXIDE	2.5-10	10 MGM3	N/E	10 MGM3	N/E	
HYDROPHOBIC SILICA	2.5-10	10 MG/M3, INHALABLE	N/E	6 MG/M3	N/E	
ISOPHORONEDIAMINE	1.0-2.5	N/E	N/E	N/E	N/E	
BISPHENOL A	1.0-2.5	N/E	N/E	N/E	N/E	
MICROCRYSTALLINE SILICA	1.0-2.5	0.025 MG/M3 (respirable)	N/E	0.1 MG/M3	N/E	
AMINE ADDUCT	1.0-2.5	N/E	N/E	N/E	N/E	
ALIPHATIC AMINE	0.1-1.0	N/E	N/E	N/E	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: Safety glasses with side-shields.

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

OTHER PROTECTIVE EQUIPMENT: Ensure that eyewash stations and safety showers are close to the workstation location. Lightweight protective clothing

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

Appearance: White Or Grey Liquid

Physical State Liquid
Odor Epoxy

Odor threshold

pH N/D

Melting point / freezing point (°C) N/D

Boiling point/range (°C) 149 F (65 C) - 500 F (260 C)

Flash Point, (°C) 95

Evaporation rate

Flammability (solid, gas)

Upper/lower flammability or explosive Not determined

limits

Vapour Pressure, mmHg N/D

Vapour density
Relative density

Solubility in / Miscibility with water N/D

Partition coefficient: n-octanol/water

Auto-ignition temperature (°C)

Decomposition temperature (°C)

Viscosity

Explosive properties

Oxidising properties

9.2 Other information

VOC Content g/l: 18

Specific Gravity (g/cm3) app. 1.21

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 (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:
Oral LD50:
Inhalation LC50:
N/D

Irritation:
Corrosivity:
Sensitization:
Repeated dose toxicity:
Carcinogenicity:
Mutagenicity:

Toxicity for reproduction:

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:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
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
100-51-6	BENZYL ALCOHOL	1230 mg/kg rat, oral	2000 mg/kg, dermal, rabbit	1000 ppm / 8 hrs rat, inhalation
111-40-0	DIETHYLENETRIAMINE	1080 mg/kg, oral, rat		10 mg/L / 1 hour, inh, rat
13463-67-7	TITANIUM DIOXIDE	25000 mg/m3, oral (rat)		Not Available
67762-90-7	HYDROPHOBIC SILICA	6350 mg/kg, oral, rat		Not Available
2855-13-2	ISOPHORONEDIAMINE	500 mg/kg oral		Not Available
80-05-7	BISPHENOL A	11400 mg/kg, oral, rat		Not Available
14808-60-7	MICROCRYSTALLINE SILICA	Not Available		Not Available
68609-08-5	AMINE ADDUCT	500 mg/kg oral, rat		Not Available
103-83-3	ALIPHATIC AMINE	Not Available		Not Available

Additional Information:

Causes burns. May be harmful if swallowed. Corrosive after repeated contact with skin and mucous membranes.

12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia):

IC50 72hr (Algae):

LC50 96hr (fish):

- 12.2 Persistence and degradability:
- 12.3 Bioaccumulative potential:
- 12.4 Mobility in soil:
- 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:

CAS-No.	<u>Chemical Name</u>	EC50 48hr	IC50 72hr	LC50 96hr
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
100-51-6	BENZYL ALCOHOL	No information	No information	No information
111-40-0	DIETHYLENETRIAMINE	No information	No information	No information
13463-67-7	TITANIUM DIOXIDE	No information	No information	No information
67762-90-7	HYDROPHOBIC SILICA	No information	No information	No information
2855-13-2	ISOPHORONEDIAMINE	No information	No information	No information
80-05-7	BISPHENOL A	No information	No information	No information
14808-60-7	MICROCRYSTALLINE SILICA	No information	No information	No information
68609-08-5	AMINE ADDUCT	No information	No information	No information
103-83-3	ALIPHATIC AMINE	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 UN 3066

14.2 UN proper shipping name Paint, Limited Quantity

Technical name N/A

14.3 Transport hazard class(es) 8

Subsidiary shipping hazard

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user

EmS-No.:

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

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:

Acute Health Hazard, Chronic Health Hazard

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:

Chemical NameCAS-No.BISPHENOL A80-05-7

Toxic Substances Control Act:

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> CAS-No.

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

U.S. Clean Air Act:

EPA Coating Category:

EPA VOC Content Limit (g/l):

Product VOC Content (g/l)

Thinning Recommendations:

Application Recommendations:

Harmful if swallowed.

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.

Chemical Name CAS-No.

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%.

Chemical Name CAS-No. MODIFIED ALIPHATIC AMINE 68610-56-0

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

<u>Chemical Name</u>	<u>CAS-No.</u>
TITANIUM DIOXIDE	13463-67-7
MICROCRYSTALLINE SILICA	14808-60-7
CARBON BLACK	1333-86-4
ETHYL BENZENE	100-41-4
CUMENE	98-82-8
EPICHLOROHYDRIN	106-89-8
BENZENE	71-43-2

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

Chemical Name CAS-No. **BISPHENOL A** 80-05-7 **EPICHLOROHYDRIN** 106-89-8 **TOLUENE** 108-88-3 **BENZENE** 71-43-2

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:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

H331 Toxic if inhaled.
H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Reasons for revision

No Information

No Information