

# **Safety Data Sheet** prepared to UN GHS Revision 3

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

use.

Product Identifier 5313A1NL

PLASITE 4540 PART A **Revision Date:** 06/13/2017 **Product Name:** 

> Supercedes Date: 05/30/2015 Component of multicomponent

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

industrial coatings - Industrial

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) 1.4 Emergency telephone number:

CHEMTREC +1 703 5273887 (Outside US)

HEALTH - Pittsburgh Poison Control 1-412-681-6669

# 2. Hazard Identification

#### Classification of the substance or mixture 2.1

Acute Toxicity, Inhalation, category 4 Hazardous to the aquatic environment, Chronic, category 2 Carcinogenicity, category 1A Serious Eye Damage, category 1 Reproductive Toxicity, category 1A 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

BENZYL ALCOHOL, MICA, MICROCRYSTALLINE SILICA, EPOXY RESIN, POLYFUNCTIONAL EPOXY

# **HAZARD STATEMENTS**

Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Serious Eye Damage, category 1	H318	Causes serious eye damage.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Carcinogenicity, category 1A	H350-1A	May cause cancer.
Reproductive Toxicity, category 1A	H360-1A	May damage fertility or the unborn child.
Hazardous to the aquatic environment,	H411	Toxic to aquatic life with long lasting effects.
Chronic, category 2		

# PRECAUTION PHRASES

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.	
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
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 ir position comfortable for breathing.	ı a
P305+351+338 IF IN EYES: Rinse cautiously with water for several minute Remove contact lenses, if present and easy to do so. Continue rinsing.	S.
P308+313 IF exposed or concerned: Get medical advice/attention	
P308+P313 IF exposed or concerned: Get medical advice/attention	
P332+313 If skin irritation occurs: Get medical advice/attention.	
P333+313 If skin irritation or rash occurs: Get medical advice/attention	n.
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**

CAS-No.	<u>Chemical Name</u>	<u>%</u>
25068-38-6	EPOXY RESIN	25-50
13462-86-7	BARITE	10-25
13463-67-7	TITANIUM DIOXIDE	10-25
12001-26-2	MICA	2.5-10
14808-60-7	MICROCRYSTALLINE SILICA	2.5-10
100-51-6	BENZYL ALCOHOL	2.5-10
30499-70-8	POLYFUNCTIONAL EPOXY	2.5-10

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
25068-38-6	GHS07-GHS09	H315-317-319-335-411	0
13462-86-7			0
13463-67-7			0
12001-26-2	GHS07	H319-335	0
14808-60-7	GHS08	H350-372	0
100-51-6	GHS07	H302-312-319-332	0
30499-70-8	GHS05-GHS07-GHS08-GHS09	H314-317-360-411	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

Irritating to eyes and skin. May be harmful if swallowed. This product contains silica which is classified by IARC as a known human carcinogen (Group 1). Crystalline silica is known to cause silicosis.

#### 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

For personal protection see section 8. 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

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. 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)

<u>Name</u>	<u>%</u>	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL- TWA	OSHA PEL- CEILING	OEL Note
EPOXY RESIN	25-50	N/E	N/E	N/E	N/E	
BARITE	10-25	0.5 MGM3	N/E	0.5 MGM3	N/E	
TITANIUM DIOXIDE	10-25	10 MGM3	N/E	10 MGM3	N/E	
MICA	2.5-10	3 MGM3	N/E	3 MGM3	N/E	
MICROCRYSTALLINE SILICA	2.5-10	0.025 mg/m3 (respirable)	N/E	0.05 mg/m3 (respirable)	N/E	
BENZYL ALCOHOL	2.5-10	N/E	N/E	N/E	N/E	
POLYFUNCTIONAL EPOXY	2.5-10	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 gloves. Request 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: Viscous Liquid

Physical State Liquid
Odor Epoxy
Odor threshold N/D
pH N/D
Melting point / freezing point (°C) N/D

**Boiling point/range (°C)** 149 F (65 C) - 637 F (336 C)

Flash Point, (°C) 94

Evaporation rate Slower Than Ether
Flammability (solid, gas) Not determined

Upper/lower flammability or explosive 0.9 - 13.0

limits

Vapour Pressure, mmHg N/D

Vapour density Heavier than Air
Relative density Not determined

Solubility in / Miscibility with water N/D

Partition coefficient: n-octanol/water

Auto-ignition temperature (°C)

Not determined

Decomposition temperature (°C)

Not determined

**Viscosity** Unknown

Explosive properties Not determined

Oxidising properties Not determined

9.2 Other information

VOC Content g/l: 5

Specific Gravity (g/cm3) 1.83

# 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: 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:

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
13462-86-7	BARITE	Not Available		Not Available
13463-67-7	TITANIUM DIOXIDE	25000 mg/kg, oral (rat)	Not Available	Not Available
12001-26-2	MICA	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
30499-70-8	POLYFUNCTIONAL EPOXY	3170 mg.kg, oral, rat		Not Available

#### **Additional Information:**

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. 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.

# 12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia):

IC50 72hr (Algae):

Unknown

Unknown

Unknown

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

assessment:

12.6 Other adverse effects: Unknown

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)
13462-86-7	BARITE	No information	No information	No information
13463-67-7	TITANIUM DIOXIDE	No information	No information	No information
12001-26-2	MICA	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)
30499-70-8	POLYFUNCTIONAL EPOXY	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 3082

**14.2 UN proper shipping name** Environmentally Hazardous Substance, Liquid, NOS

Technical name (Epoxy Resin)

14.3 Transport hazard class(es) 9

Subsidiary shipping hazard N/A

14.4 Packing group PGIII

**14.5 Environmental hazards**Marine Pollutant : Yes (Epoxy Resin)

14.6 Special precautions for user Unknown EmS-No.: F-A, S-F

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:

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:

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

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:

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.

## California Proposition 65:

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

 Chemical Name
 CAS-No.

 TITANIUM DIOXIDE
 13463-67-7

 MICROCRYSTALLINE SILICA
 14808-60-7

 CUMENE
 98-82-8

 ETHYL BENZENE
 100-41-4

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

No Proposition 65 Reproductive Toxins exist in this product.

# 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.

# Other Information

# Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
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.