

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

**1.1 Product Identifier**

**Product Name:** PLAE Interlocking Block Adhesive  
**Product Code:** Interlocking Block Adhesive  
**Product(s) Covered:** See Section 16 for more information

**1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**

**Recommended Use:** Adhesives  
**Uses Advised Against:** No information available

**1.3 Details of the Supplier of the Safety Data Sheet**

**Company Name:** PLAE Vertical Inc., 108 Arnold Mill Road, Woodstock, GA 30188  
 Phone: 1 (404) 645-7900 (8:00 a.m. to 5:00 p.m. EST)  
 Fax: 1 (770) 702-5381

**1.4 Emergency Telephone Number:**

**Emergency Telephone:** Telephone: 1 (404) 645-7900 (8:00 a.m. to 5:00 p.m. EST)

**Section 2. Hazard Identification**

**2.1 Classification of the Substance or Mixture**

<b>Respiratory sensitization</b>	Category 1
<b>Skin sensitization</b>	Category 1
<b>Reproductive Toxicity</b>	Category 1B


**2.2 Label Elements**

**EMERGENCY OVERVIEW**

**DANGER**

**Hazard statements**

- May cause allergy or asthma symptoms or breathing difficulties if inhaled
- May cause an allergic skin reaction
- May damage fertility or the unborn child



Appearance: Paste  
 Physical State: Liquid  
 Odor: No information available

**Precautionary Statements - Prevention**

**Obtain special instruction before use**

- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Avoid breathing dust/fume/gas/mist/vapors/spray
- In case of inadequate ventilation, wear respiratory protection
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves

**Precautionary Statements - Response**

- IF exposed or concerned; Get medical advice/attention
- Specific treatment (see first aid measures on this label)

•IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

•IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**Precautionary Statements - Storage**

- Store locked up.

**Precautionary Statements - Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazards Not Otherwise Classified (HNOC)**

- Not applicable

**Unknown Toxicity**

- 18% of the mixture consists of ingredient(s) of unknown toxicity.

**2.3 Other Information**

No information available.

**Section 3. Composition / Information on ingredients**

**3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical Name	CAS No.	Weight - %
Limestone	1317-65-3	40 - 70
Quartz	14808-60-7	0.1 - 1
Dibutyltin dilaurate	77-58-7	0.1 - 1
Benzenesulfonyl isocyanate, 4-methyl-	4083-64-1	0.1 - 1

*The exact percentage (concentration) of composition has been withheld as a trade secret.*

**Section 4. First Aid Measures**

**4.1 Description of First Aid Measures**

<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. If eye irritation persists: Get medical advice/attention.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. May cause sensitization by skin contact. In the case of skin irritation or allergic reactions, see a physician.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If symptoms persist, call a physician.

**4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

Symptom No information available.

**4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**

Note to physicians May cause sensitization by inhalation and skin contact. Treat symptomatically.

**4.4 Reference to Other Sections**

Reference to Other Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION  
Section 11: TOXICOLOGY INFORMATION

## Section 5. Fire-fighting Measures

### 5.1 Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media:** CAUTION: Use of water spray when fighting fire may be inefficient.

### 5.2 Special Hazards Arising from the Substance or Mixture

**Specific Hazards Arising from the Chemical:** No information available.

### Explosion Data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

### 5.3 Advice for Firefighters

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA / NIOSH (approved or equivalent) and full protective gear.

## Section 6. Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

**Personal Precautions:** Ensure adequate ventilation, especially in confined areas.

### 6.2 Environmental Precautions

**Environmental:** See Section 12 for additional Ecological information.

### 6.3 Methods and Material for Containment and Cleaning Up

**Methods for Containment:** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up:** Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

### 6.4 Reference to Other Sections

**Reference to Other Sections:** Section 7: HANDLING AND STORAGE

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Section 13: DISPOSAL CONSIDERATIONS

## 7. Handling and Storage

### 7.1 Precautions for Safe Handling

**Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for Safe Storage, including and incompatibilities

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from direct contact with water or excessive moisture. Reacts with water.

**Incompatible Materials:** Water.

### 7.3 Specific End Use(s)

**Other Information:** No information available.

### 7.4 References to Other Sections

**Reference to Other Sections:** Section 13: DISPOSAL CONSIDERATIONS

Section 10: STABILITY AND REACTIVITY

**SECTION 8. Exposure Controls / Personal Protection**

**8.1 Control Parameters**

**Exposure Guidelines** As Quartz (CAS# 14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal conditions of use. As Limestone (CAS# 1317-65-3) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist or spray) under normal conditions of use.

Chemical Name	ACFIH TLV	NIOSH IDLH	OSHA PEL
Limestone (1317-65-3)	-	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust	TWA: 15 mg/m <sup>3</sup> total dust STEL: 20 mg/m <sup>3</sup> respirable
Quartz (14808-60-7)	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 5 mg/m <sup>3</sup> respirable dust	: (30/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA total dust : (250/(%SiO <sub>2</sub> + 5) TWA respirable fraction : (10/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction
Dibutyltin dilaurate (77-58-7)	TWA: 0.1 mg/m <sup>3</sup> Sn S* STEL: 20 mg/m <sup>3</sup> Sn	IDHL: 25 mg/m <sup>3</sup> Sn TWA: 0.1 mg/m <sup>3</sup> except Cyhexatin Sn	TWA: 0.1 mg/m <sup>3</sup> Sn

**8.2 Exposure Controls**

**Engineering Controls** Showers, Eyewash stations, Ventilation systems.

**Personal Protective Equipment (PPE)**

- Eye / Face Protection** Wear safety glasses with side shields (or goggles).
- Skin / Body Protection** Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.
- Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH / MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
- General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. Physical & Chemical Properties**

**9.1 Information on Basic Physical and Chemical Properties**

<b>Physical State</b>	Liquid
<b>Appearance</b>	Paste
<b>Color</b>	Grey
<b>Odor</b>	No information available
<b>Odor Threshold</b>	No information available
<b>Property</b>	<b>Values</b>
<b>pH</b>	No information available
<b>Melting Point / Freezing</b>	No information available
<b>Boiling Point</b>	No information available
<b>Flash Point</b>	260°C / 500°F
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available

**Remarks \* Method**

**Flammability Limit in Air**

**Upper Flammability Limit** No information available

**Lower Flammability Limit** No information available

**Vapor Pressure** No information available

**Vapor Density** No information available

**Specific Gravity** No information available

**Water Solubility** No information available

**Solubility in Other**

**Partition Coefficient** No information available

**Autoignition Temperature** No information available

**Decomposition Temperature** No information available

**Kinematic Viscosity** No information available

**Dynamic Viscosity** No information available

**Explosive Properties** No information available

**Oxidizing Properties** No information available

**9.2 Other Information**

**Softening Point** No information available

**Molecular Weight** No information available

**Solvent Content (%)** No information available

**Solid Content (%)** 100

**Density** 1.650 g/cm<sup>3</sup>

**VOC** < 0.1%

**10. Stability and Reactivity**

**10.1 Reactivity**

None under normal use conditions.

**10.2 Chemical Stability**

Stable under recommended storage conditions.

**10.3 Possibility of Hazardous Reactions**

None under normal processing.

**10.4 Conditions to Avoid**

Extremes of temperature and direct sunlight. Keep from any possible contact with water. Reacts with water.

**10.5 Incompatible Materials**

Water.

**10.6 Hazardous Decomposition Products**

None known based on information supplied.

**11. Toxicological information**

**11.1 Information on Toxicological Effects**

**Product Information** No Data Available.

**Inhalation** No Data Available.

**Eye Contact** No Data Available.

**Skin Contact** No Data Available.

**Ingestion** No Data Available.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Limestone (1317-65-3)	> 5000 mg/kg (rat)	-	-
Quartz (14808-60-7)	> 2000 mg/kg (rat)	-	-
Dibutyltin dilaurate (77-58-7)	= 2071 mg/kg (rat)	> 2000 mg/kg (rat)	-
Benzenesulfonyl isocyanate, 4-methyl- (4083-64-1)	= 2234 mg/kg (rat)	-	> 640 ppm (rat) 1 h

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

**Symptoms** No information available.

**Skin Corrosion / Irritation** No information available.

**Serious Eye Damage / Eye Irritation** No information available.

**Irritation** No information available.

**Corrosivity** No information available.

**Sensitization** No information available.

**Germ Cell Mutagenicity** No information available.

**Reproductive Toxicity** No information available.

**Developmental Toxicity** No information available.

**Teratogenicity** No information available.

**STOT - Single Exposure** No information available.

**STOT - Repeated Exposure** No information available.

**Chronic Toxicity** No information available.

**Target Organ Effects** Eyes, Respiratory System, Skin

**Aspiration Hazard** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal conditions of use.

The table below indicates whether each agency has listed any ingredient as a carcinogen. As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal conditions of use.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz (14808-60-7)	A2 - Suspected Human Carcinogen	Group 1 - Carcinogenic to Humans	Known - Known Carcinogen	X - Present

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

## 12. Ecological Information

### 12.1 Toxicity

12.2 Chemical Name	Algae / Aquatic Plants	Fish	Toxicity to Micro-organisms	Crustacea
Quartz (14808-60-7)	CE50 (72h) > 200 mg/L Algae ( <i>Desmodesmus subspicatus</i> )	CL50 (96h) > 10,000mg/L Fish ( <i>Oncorhynchus mykiss</i> )		CE50 (48h) > 1000 mg/L ( <i>Daphnia Magna</i> )
Dibutyltin dilaurate (77-58-74)		LC50 (48h) = 2 mg/L ( <i>Oryzias latipes</i> )		

No information available.

### 12.3 Bioaccumulative Potential

No information available.

### 12.4 Mobility in Soil

No information available.

### 12.5 Other adverse effects

No information available.

## 13. Disposal Considerations

### 13.1 Waste Treatment Methods

**Disposal of Wastes** It is the responsibility of the waste generator to determine the toxicity and physical properties of the material

**Contaminated Packaging** Dispose of in accordance with federal, state and local regulations.

## 14. Transport Information

DOT	Not regulated.
IATA	Not regulated.
IMDG	Not regulated.

## 15. Regulatory information

### Global Inventories

TSCA	Listed
DSL	Listed

### Legend:

**TSCA** United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** Canadian Domestic Substances List

**Listed** The components of this product are either listed or exempt from listing on inventory.

**Not Listed** One or more components of this product are not listed on inventory.

### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the

**WHMIS Hazard Class** D2A - Very toxic materials

### United States of America



**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals

**SARA 311/312 Hazard Categories**

- Acute Health Hazard** Yes
- Chronic Health Hazard** Yes
- Fire Hazard** No
- Sudden release of pressure hazard** No

**California Proposition 65**

This product contains one or more of the substances listed on Proposition 65 at or above 0.01 wt. %.

Chemical Name	CAS No.
Quartz	14808-60-7
N-(trichloromethylthio) phthalimide	133-07-3
Carbon black	1333-86-4

**Europe**

**Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU**

Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

**EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**Section 16. Other Information**

**Product(s) Covered**

**A74410** - DCVP PL PLAE Interlocking Block Adhesive

**HMIS**

- Health Hazards** 2\*
- Flammability** 1
- Physical Hazards** 0
- Personal Protection** X

**Key or Legend to Abbreviations and Acronyms Used in the Safety Data Sheet**

No information available.

**Key Literature References and Sources for Data**

No information available.

- Prepared by** PLAE
- Revision Date** 18-Aug-20
- Revision Note** Not applicable
- Training Advice** No information available
- Additional Information** No information available

**Disclaimer**

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**\*\*\* End of Safety Data Sheet \*\*\***