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| **SECTION 1: IDENTIFICATION** |

* 1. **Product Identifier**
* Product Form: Article
* Product Name: E Block
* Synonyms: E Block
	1. **Intended Use of the Product**
* Use of the substance/mixture: Home and Building Construction Component
	1. **Name, Address, and Telephone of the Responsible Party**
* Company

Ply Gem Industries

2600 Grand Blvd, Suite 900

64108 Kansas City, MO T 816-426-8200

Email: [www.plygem.com](http://www.plygem.com/)

* 1. **Emergency Telephone Number**
* Emergency Number: 1-800-424-9300 (CHEMTREC)

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| **SECTION 2: HAZARDS IDENTIFICATION** |

* 1. **Classification of the Substance or Mixture**
* Classification (GHS-US)

Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this product is considered a manufactured article and is not considered a hazard when used in a manner which is consistent with the labeled directions.

* 1. **Label Elements**
* **GHS-US Labeling**

No labeling applicable

* 1. **Other Hazards**
* The health effects listed below are not likely to occur unless processing of this product generates dust. Dust from processing can cause irritation of eyes, skin and upper respiratory tract.
	1. **Unknown Acute Toxicity (GHS-US)**
* No data available

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| **SECTION 3: COMPOSITION / INFORMATION ON INGREDENT** |

* 1. **Substance**
* Not applicable
	1. **Mixture**

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| **Name** | **Product Identifier** | **%** | **Classification (GHS-US)** |
| Carbonic dichloride, polymer with 4,4'-(1- methylethylidene)bis[phenol], 4-(1-methyl-1- phenylethyl)phenyl ester | (CAS No) 111211-39-3 | 88 - 100 | Not classified |
| Glass, oxide, chemicals | (CAS No) 65997-17-3 | 5 - 10 | Carc. 1B, H350 |
| Titanium dioxide | (CAS No) 13463-67-7 | 0.1 - 1 | Carc. 2, H351 |
| Carbon black | (CAS No) 1333-86-4 | 0.1 - 1 | Carc. 2, H351 |

Full text of H-phrases: see section 16

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| **SECTION 4: FIRST AID MEASURES** |

**4.1 Description of First Aid Measures**

* **First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
* **First-aid Measures after Inhalation**: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
* **First-aid Measures after Skin Contact:** Wash with plenty of soap and water. Obtain medical attention if irritation develops or persists.
* **First-aid Measures after Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
* **First-aid Measures after Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical attention.

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

* **Symptoms/Injuries:** None expected under normal conditions of use. The health effects listed below are not likely to occur unless dust is generated by processing.
* **Symptoms/Injuries after Inhalation:** Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
* **Symptoms/Injuries after Skin Contact:** Dust may cause irritation in skin folds or by contact in combination with tight clothing.
* **Symptoms/Injuries after Eye Contact:** Dust from this product may cause minor eye irritation.
* **Symptoms/Injuries After Ingestion:** Gastrointestinal irritation.
* **Chronic Symptoms:** None expected under normal conditions of use.

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

* If medical advice is needed, have product container or label at hand.

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| **SECTION 5: FIRE FIGHTING MEASURES** |

**5.1. Extinguishing Media**

* **Suitable Extinguishing Media:** Dry chemical, water spray, regular foam.
* **Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

**5.2. Special Hazards Arising From the Substance or Mixture**

* **Fire Hazard:** Non-combustible.
* **Explosion Hazard:** None known.
* **Reactivity:** Hazardous reactions will not occur under normal conditions.

**5.3. Advice for Firefighters**

* **Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.
* **Firefighting Instructions:** Avoid inhalation of material or combustion by-products. Do not allow run-off from firefighting to enter drains or water sources. Use water spray or fog for cooling exposed containers.
* **Protection during Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.
* **Other Information:** Refer to Section 9 for flammability properties.

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| **SECTION 6: ACCIDENTAL RELEASE MEASURE** |

**6.1. Personal Precautions, Protective Equipment and Emergency Procedures**

* **General Measures**: No special measures required.

**6.1.1. For Non-emergency Personnel**

* **Protective Equipment:** Use appropriate personal protection equipment (PPE).
* **Emergency Procedures:** Evacuate unnecessary personnel.

**6.1.2. For Emergency Responders**

* **Protective Equipment:** Equip cleanup crew with proper protection.
* **Emergency Procedures:** Ventilate area.

**6.2. Environmental Precautions**

* Prevent entry to sewers and public waters.

**6.3. Methods and Material for Containment and Cleaning Up**

* **For Containment:** No specific measures are necessary.
* **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. Utilize a dust suppressant when removing mechanically.

**6.4. Reference to Other Sections**

* See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

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| **SECTION 7: HANDLING AND STORAGE** |

**7.1. Precautions for Safe Handling**

* **Additional Hazards When Processed:** Where excessive dust may result, use approved respiratory protection equipment. Do not breathe dust.
* **Precautions for Safe Handling:** Avoid creating or spreading dust.
* **Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**7.2. Conditions for Safe Storage, Including Any Incompatibilities**

* **Storage Conditions:** Store away from incompatible materials. **Incompatible Products:** Strong acids. Strong bases. Strong oxidizers. **Storage Area:** Store in a well-ventilated place. Keep cool.

**7.3. Specific End Use(s)** Home and Building Construction Component

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| **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION** |

**8.1. Control Parameters**

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

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| **Glass, oxide, chemicals (65997-17-3)** |
| **USA NIOSH** | NIOSH REL (TWA) (mg/m³) | 3 fibers/cm³ (fibers ≤3.5 µm in diameter & ≥10µm in length), TWA 5mg/m3 (total) 5mg/m3 (total) |
| **USA OSHA** | OSHA PEL (TWA) (mg/m³) | 15 mg/m³ total dust, 5 mg/m3, respirable fraction 8 hr |

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| **Titanium dioxide (13463-67-7)** |
| **USA ACGIH** | ACGIH TWA (mg/m³) | 10 mg/m³ |
| **USA ACGIH** | ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| **USA IDLH** | US IDLH (mg/m³) | 5000 mg/m³ |
| **USA OSHA** | OSHA PEL (TWA) (mg/m³) | 15 mg/m³ (total dust) |

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| **Carbon black (1333-86-4)** |
| **USA ACGIH** | ACGIH TWA (mg/m³) | 3 mg/m³ (inhalable fraction) |
| **USA ACGIH** | ACGIH chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| **USA NIOSH** | NIOSH REL (TWA) (mg/m³) | 3.5 mg/m³0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons) |
| **USA IDLH** | US IDLH (mg/m³) | 1750 mg/m³ |
| **USA OSHA** | OSHA PEL (TWA) (mg/m³) | 3.5 mg/m³ |

**8.2. Exposure Controls**

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| Appropriate Engineering Controls | Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. |

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|  Personal Protective Equipment | In case of dust production: protective goggles. | http://tse1.mm.bing.net/th?&id=OIP.M4a40c9fdc879011176be402ea7aff03fo0&w=231&h=213&c=0&pid=1.9&rs=0&p=0&r=0 |
| Dust formation:dust mask. | http://tse1.mm.bing.net/th?&id=OIP.M49a336f5d86718b3ba9c792994bb525do0&w=300&h=300&c=0&pid=1.9&rs=0&p=0&r=0 |

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| Materials for Protective Clothing | Not required for normal conditions of use |
| Hand Protection | Not required for normal conditions of use |
| Eye Protection | In case of dust production: protective goggles |
| Skin and Body Protection | Not required for normal conditions of use |
| Respiratory Protection | Use NIOSH-approved dust mask if dust has the potential to become airborne. |
| Environmental Exposure Controls | Avoid release to the environment |
| Consumer Exposure Controls | Do not eat, drink or smoke during use |

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| **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES** |

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

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| --- | --- |
| Physical State | Solid |
| Appearance | Various colors |
| Odor | Slight |
| Odor Threshold | No data available |
| pH | N/A |
| Evaporation Rate | No data available |
| Melting Point | Not determined |
| Freezing Point | No data available |
| Boiling Point | Not applicable |
| Flash Point | Not applicable |
| Auto-ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Flammability (solid, gas) | No data available |
| Relative Vapor Density at 20 °C | No data available |
| Relative Density | No data available |
| Specific Gravity | No data available |
| Solubility | > 1 |
| Partition Coefficient: N-Octanol/Water | Water: Insoluble |
| Viscosity | No data available |

**9.2 Other Information** No additional information available

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| **SECTION 10: STABILITY AND REACTIVITY** |

**10.1. Reactivity:**

Hazardous reactions will not occur under normal conditions.

**10.2. Chemical Stability:**

Stable under recommended handling and storage conditions (see section 7).

**10.3. Possibility of Hazardous Reactions:**

Hazardous polymerization will not occur.

**10.4. Conditions to Avoid:**

Sparks, heat, open flame and other sources of ignition.

**10.5. Incompatible Materials:**

Strong acids. Strong bases. Strong oxidizers.

**10.6. Hazardous Decomposition Products:**

None known.

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| **SECTION 11: TOXICOLOGICAL INFORMATION** |

**11.1. Information on Toxicological Effects**

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| Acute Toxicity:  | Not classified |

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| Titanium dioxide (13463-67-7) |
| LD50 Oral Rat | > 10000 mg/kg |

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| Carbon black (1333-86-4) |
|  LD50 Oral Rat | > 8000 mg/kg |

|  |  |  |
| --- | --- | --- |
|  Skin Corrosion/Irritation | Not classified  | pH: N/A |
| Serious Eye Damage/Irritation | Not classified | pH: N/A |
| Respiratory or Skin Sensitization | Not classified |  |
| Germ Cell Mutagenicity | Not classified |  |
| Carcinogenicity | Not classified |  |

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| Carcinogenicity |
| * Titanium dioxide (13463-67-7)
 |
| * + IARC group
 | 2B |
| * OSHA Hazard Communication Carcinogen List
 | In OSHA Hazard Communication Carcinogen list |

|  |
| --- |
| Carbon black (1333-86-4) |
| * IARC group
 | 2B |
| * OSHA Hazard Communication Carcinogen List
 | In OSHA Hazard Communication Carcinogen list |

|  |  |
| --- | --- |
| Reproductive Toxicity | Not classified |
| Specific Target Organ Toxicity(Single Exposure) | Not classified  |
| Specific Target Organ Toxicity (Repeated Exposure) | Not classified |
| Aspiration Hazard | Not classified |
| Symptoms/Injuries after Inhalation | Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure |
| Symptoms/Injuries after Skin Contact | Dust may cause irritation in skin folds or by contact in combination with tight clothing. |
| Symptoms/Injuries after Eye Contact | Dust from this product may cause minor eye irritation |
| Symptoms/Injuries After Ingestion | Gastrointestinal irritation |
| Chronic Symptoms | None expected under normal conditions of use |

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| **SECTION 12: ECOLOGICAL INFORMATION** |

**12.1. Toxicity**

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| **Carbon black (1333-86-4)** |
| **EC50 Daphnia 1** | 5600 mg/l (Exposure time: 24 h - Species: Daphnia magna) |

**12.2. Persistence and Degradability No additional information available**

**12.3. Bioaccumulative Potential No additional information available**

**12.4 Mobility in Soil No additional information available**

**12.5 No additional information available**

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| **SECTION 13: DISPOSAL CONSIDERATIONS** |

**13.1. Waste treatment methods**

* **Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

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| **SECTION 14: TRANSPORT INFORMATION** |

14.1 **In Accordance with DOT:** Not regulated for transport

14.2 **In Accordance with IMDG:** Not regulated for transport

14.3 **In Accordance with IATA:** Not regulated for transport

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| **SECTION 15: TRANSPORT INFORMATION** |

**15.1 US Federal Regulations**

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| **Carbonic dichloride, polymer with 4,4'-(**1-methylethylidene)bis[phenol], 4-(1-methyl-1-phenylethyl)phenyl ester **(111211-39-3)** |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

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| **Glass, oxide, chemicals (65997-17-3)** |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

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| --- |
| **Titanium dioxide (13463-67-7)** |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| **SARA Section 311/312 Hazard Classes** | Delayed (chronic) health hazard |

|  |
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| **Carbon black (1333-86-4)** |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

**15.2 US State Regulations**

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| **Titanium dioxide (13463-67-7)** |
| **U.S. - California - Proposition 65 - Carcinogens List** | WARNING: This product contains chemicals known to the State of California to cause cancer. |

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|  **Carbon black (1333-86-4)** |
| **U.S. - California - Proposition 65 - Carcinogens List** | WARNING: This product contains chemicals known to the State of California to cause cancer. |

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|  **Titanium dioxide (13463-67-7)** |
| U.S. - Massachusetts - Right To Know ListU.S. - New Jersey - Right to Know Hazardous Substance ListU.S. - Pennsylvania - RTK (Right to Know) List |

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|  **Carbon black (1333-86-4)** |
| U.S. - Massachusetts - Right to Know ListU.S. - New Jersey - Right to Know Hazardous Substance ListU.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous SubstancesU.S. - Pennsylvania - RTK (Right to Know) List |

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| **SECTION 16: OTHER INFORMATION** |

**GHS Full Text Phrases**:

|  |  |
| --- | --- |
| Carc. 1B | Carcinogenicity Category 1B |
| Carc. 2 | Carcinogenicity Category 2 |
| H350 | May cause cancer |
| H351 | Suspected of causing cancer |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*