

**Product Name:** EMERGE<sup>TM</sup> PC/ABS 7710 Natural Advanced Resin**Issue Date:** 04/19/2016**Print Date:** 31 Oct 2016

TRINSEO LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

## 1. Identification

**Product Name**EMERGE<sup>TM</sup> PC/ABS 7710 Natural Advanced Resin**Identified uses**

A thermoplastic resin. For industrial conversion as a raw material for manufacture of articles or goods. We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

**COMPANY IDENTIFICATION**

TRINSEO LLC  
1000 CHESTERBROOK, SUITE 300  
BERWYN PA 19312-1084  
UNITED STATES

**Customer Information Number:**

888-789-7661  
SDSQuestion@trinseo.com

**EMERGENCY TELEPHONE NUMBER**

**24-Hour Emergency Contact:** 800-424-9300  
**Local Emergency Contact:** 800-424-9300

## 2. Hazards Identification

**Classification of the substance or mixture** This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**Other Hazards:** no data available

## 3. Composition Information

This product is a mixture.

| Component     | CAS #       | Amount    |
|---------------|-------------|-----------|
| Polycarbonate | 103598-77-2 | >= 55.0 % |

<sup>TM</sup> TRADEMARK OF TRINSEO S.A. OR ITS AFFILIATES

|                                        |             |           |
|----------------------------------------|-------------|-----------|
| Acrylonitrile/butadiene/ styrene resin | 9003-56-9   | <= 25.0 % |
| Aromatic polyphosphate                 | 181028-79-5 | <= 17.0 % |

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## 4. First-aid measures

### Description of first aid measures

**General advice:** First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air; if effects occur, consult a physician.

**Skin Contact:** Wash skin with plenty of water. Seek first aid or medical attention as needed. If molten material comes in contact with the skin, do not apply ice but cool under ice water or running stream of water. DO NOT attempt to remove the material from skin. Removal could result in severe tissue damage. Seek medical attention immediately. Suitable emergency safety shower facility should be immediately available.

**Eye Contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Ingestion:** If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

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

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

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

If burn is present, treat as any thermal burn, after decontamination. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## 5. Fire Fighting Measures

### Suitable extinguishing media

Water. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers.

### Special hazards arising from the substance or mixture

**Hazardous Combustion Products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Carbon monoxide. Carbon dioxide. Combustion products may include trace amounts of: Styrene. Hydrogen cyanide. Phenolic compounds. Phosphorus oxides.

**Unusual Fire and Explosion Hazards:** Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate. This product contains a flame retardant to inhibit accidental ignition from small fire sources. Dense smoke is produced when product burns.

### Advice for firefighters

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.

**Special Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

## 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**Methods and materials for containment and cleaning up:** Contain spilled material if possible. Sweep up. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

## 7. Handling and Storage

### Handling

**General Handling:** No smoking, open flames or sources of ignition in handling and storage area. Good housekeeping and controlling of dusts are necessary for safe handling of product. Avoid breathing process fumes. Use with adequate ventilation. When appropriate, unique handling information for containers can be found on the product label. Workers should be protected from the possibility of contact with molten resin. Do not get molten material in eyes, on skin or clothing. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge.

### Storage

Store in accordance with good manufacturing practices.

## 8. Exposure Controls / Personal Protection

### Exposure Limits

None established

### Personal Protection

**Eye/Face Protection:** Use safety glasses (with side shields). If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

**Skin Protection:** No precautions other than clean body-covering clothing should be needed.

**Hand protection:** Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized. Use gloves with insulation for thermal protection, when needed. Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.

**Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. Use an approved air-purifying respirator when vapors are generated at increased temperatures or when dust or mist is present. The following should be effective types of air-purifying respirators: When dust/mist are present use a/an Particulate filter. When combinations of vapors, acids, or dusts/mists are present use a/an Organic vapor cartridge with a particulate pre-filter.

**Ingestion:** Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

## Engineering Controls

**Ventilation:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

## 9. Physical and Chemical Properties

### Appearance

|                                                  |                                                              |
|--------------------------------------------------|--------------------------------------------------------------|
| Physical State                                   | Pellets or Granules                                          |
| Color                                            | White                                                        |
| Odor                                             | Odorless                                                     |
| Odor Threshold                                   | No test data available                                       |
| pH                                               | Not applicable                                               |
| Melting Point                                    | No test data available                                       |
| Freezing Point                                   | Not applicable                                               |
| Boiling Point (760 mmHg)                         | Not applicable.                                              |
| Flash Point - Closed Cup                         | Not applicable                                               |
| Evaporation Rate (Butyl Acetate = 1)             | Not applicable                                               |
| Flammability (solid, gas)                        | No                                                           |
| Flammable Limits In Air                          | <b>Lower:</b> Not applicable<br><b>Upper:</b> Not applicable |
| Vapor Pressure                                   | Not applicable                                               |
| Vapor Density (air = 1)                          | Not applicable                                               |
| Specific Gravity (H <sub>2</sub> O = 1)          | 1.1 - 1.2 <i>Estimated.</i>                                  |
| Solubility in water (by weight)                  | Negligible                                                   |
| Partition coefficient, n-octanol/water (log Pow) | No data available for this product.                          |
| Autoignition Temperature                         | No test data available                                       |
| Decomposition Temperature                        | No test data available                                       |
| Kinematic Viscosity                              | Not applicable                                               |
| Explosive properties                             | No test data available                                       |
| Oxidizing properties                             | No test data available                                       |
| Molecular Weight                                 | No test data available                                       |

## 10. Stability and Reactivity

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical stability

Stable.

### **Possibility of hazardous reactions**

Polymerization will not occur.

**Conditions to Avoid:** Avoid temperatures above 340 °C (644 °F). Exposure to elevated temperatures can cause product to decompose.

**Incompatible Materials:** None known.

### **Hazardous decomposition products**

Decomposition products depend upon temperature, air supply and the presence of other materials. Processing may release fumes and other decomposition products. At temperatures exceeding melt temperatures, polymer fragments can be released. Fumes can be irritating. Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide. Aromatic compounds. Hydrocarbons. Phenolics. Polymer fragments.

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## **11. Toxicological Information**

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### **Acute Toxicity**

#### **Ingestion**

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause choking if swallowed.

Single dose oral LD50 has not been determined.

Typical for this family of materials. Estimated. LD50, rat > 5,000 mg/kg

#### **Aspiration hazard**

Based on physical properties, not likely to be an aspiration hazard.

#### **Dermal**

No adverse effects anticipated by skin absorption.

The dermal LD50 has not been determined.

Typical for this family of materials. Estimated. LD50, rabbit > 2,000 mg/kg

#### **Inhalation**

No adverse effects are anticipated from single exposure to dust. Vapors released during thermal processing may cause respiratory irritation.

The LC50 has not been determined. .

#### **Eye damage/eye irritation**

Solid or dust may cause irritation or corneal injury due to mechanical action. Elevated temperatures may generate vapor levels sufficient to cause eye irritation. Effects may include discomfort and redness.

#### **Skin corrosion/irritation**

Prolonged contact is essentially nonirritating to skin. Mechanical injury only. Under normal processing conditions, material is heated to elevated temperatures; contact with the material may cause thermal burns.

#### **Sensitization**

##### **Skin**

No relevant data found.

##### **Respiratory**

No relevant data found.

#### **Repeated Dose Toxicity**

Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.

#### **Chronic Toxicity and Carcinogenicity**

No relevant data found.

#### **Developmental Toxicity**

No relevant data found.

#### **Reproductive Toxicity**

No relevant data found.

#### **Genetic Toxicology**

In vitro genetic toxicity studies were negative.

## **12. Ecological Information**

### **Toxicity**

Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

### **Persistence and Degradability**

This water-insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

### **Bioaccumulative potential**

**Bioaccumulation:** No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

### **Mobility in soil**

**Mobility in soil:** In the terrestrial environment, material is expected to remain in the soil., In the aquatic environment, material will sink and remain in the sediment.

### **Results of PBT and vPvB assessment**

This mixture has not been assessed for persistence, bioaccumulation and toxicity (PBT).

### **Other adverse effects**

No relevant data found.

## **13. Disposal Considerations**

### **Disposal methods**

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Recycler. Reclaimer. Landfill.

## **14. Transport Information**

### **DOT Non-Bulk**

NOT REGULATED

### **DOT Bulk**

NOT REGULATED

### **IMDG**

NOT REGULATED

**ICAO/IATA**  
NOT REGULATED

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.*

## 15. Regulatory Information

### OSHA Hazard Communication Standard

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

|                                   |    |
|-----------------------------------|----|
| Immediate (Acute) Health Hazard   | No |
| Delayed (Chronic) Health Hazard   | No |
| Fire Hazard                       | No |
| Reactive Hazard                   | No |
| Sudden Release of Pressure Hazard | No |

### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

### Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

### Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

| Component     | CAS #    | Amount      |
|---------------|----------|-------------|
| Ethylbenzene  | 100-41-4 | <= 0.0323 % |
| 1,3-Butadiene | 106-99-0 | <= 0.0049 % |
| Acrylonitrile | 107-13-1 | <= 0.0067 % |

### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

| Component     | CAS #    | Amount      |
|---------------|----------|-------------|
| 1,3-Butadiene | 106-99-0 | <= 0.0049 % |

### US. Toxic Substances Control Act

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

### CEPA - Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.



**16. Other Information****Revision**

Identification Number: 1061800 / A561 / Issue Date 04/19/2016 / Version: 3.0

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

**Legend**

|              |                                                                                                                                                             |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N/A          | Not available                                                                                                                                               |
| W/W          | Weight/Weight                                                                                                                                               |
| OEL          | Occupational Exposure Limit                                                                                                                                 |
| STEL         | Short Term Exposure Limit                                                                                                                                   |
| TWA          | Time Weighted Average                                                                                                                                       |
| ACGIH        | American Conference of Governmental Industrial Hygienists, Inc.                                                                                             |
| DOW IHG      | Dow Industrial Hygiene Guideline                                                                                                                            |
| WEEL         | Workplace Environmental Exposure Level                                                                                                                      |
| HAZ DES      | Hazard Designation                                                                                                                                          |
| Action Level | A value set by OSHA that is lower than the PEL which will trigger the need for activities such as exposure monitoring and medical surveillance if exceeded. |

TRINSEO LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.