

Product name: **POLYLAC® ABS**

Version 7

Revision Date: November 15, 2024  
Print Date: November 15, 2024

**Section 1. Identification of the substance/ mixture and of the company/ undertaking**

**1.1 Product identifier**

Product name: **POLYLAC® ABS**

This safety data sheet pertains to the following products:  
PA-757 A01, PA-747S A01, PA-737 A03

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses: Mixture used for the production of molded plastic articles

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

Supplier: CHIMEI Corporation  
Address: No. 398, Sec. 1, Zhongzheng Rd., Rende Dist., Tainan City, 717010, Taiwan  
Telephone: +886 6 2663000 Ext. 1734

**1.4 Emergency telephone number**

Emergency telephone : +886 6 2663000 Ext. 1110/2110

**Section 2. Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Directive 67/548/EEC or 1999/45/EC: Not classified as hazardous (polymeric state)

Classification according to Regulation (EC) N° 1272/2008 (CLP): Not classified as hazardous (polymeric state)

**2.2 Label elements**

Not labelled as hazardous

**2.3 Other hazards**

vPvB/PBT assessment: not available

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

**3.1 Composition of the substance/ preparation**

Substance or Preparation : Substance  
Content:

| CAS        | Name                                      | content |
|------------|-------------------------------------------|---------|
| 9003-56-9  | Acrylonitrile-Butadiene-Styrene copolymer | ≥ 93%   |
| 13463-67-7 | Titanium dioxide                          | < 3%    |
| -          | Additives                                 | ≤ 3%    |

Impurities Contributing to Hazard : None

Product name: **POLYLAC ® ABS**

Version 7

Revision Date: November 15, 2024  
Print Date: November 15, 2024

### 3.2 Additional information:

Preparation does not contain dangerous substances above limits that need to be mentioned in this section according to applicable legislation.

Reach Info:

|                | Pre-registration No.  | Registration No.                                                                                                          |
|----------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------|
| Acrylonitrile  | 05-2117149456-38-0000 | 01-2119474195-34-0045                                                                                                     |
| Styrene        | 05-2117149462-45-0000 | 01-2119457861-32-0006<br>01-2119457861-32-0007<br>01-2119457861-32-0057<br>01-2119457861-32-0065<br>01-2119457861-32-0081 |
| Buta-1,3-diene | 05-2117149467-35-0000 | 01-2119471988-16-0044                                                                                                     |

## Section 4. First-aid measures

### 4.1 Description of first aid measures

General notes: Remove affected persons from the danger area, at the same time ensuring your own safety. Remove all contaminated clothing immediately

Following inhalation: In case of gases evolving from melted resin, move subject to fresh air. Treat symptomatically

Following skin contact: In case of pellets or powder, wash with water. In case of smelt, wash affected skin area and clothing with plenty of (soap and) water. Seek medical advice

Following eye contact: In case of pellets or powder, flush with plenty of water for at least 15 minutes. Seek medical advice if any dust particles still remain.

In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary

Following ingestion: Induce vomiting. Rinse mouth with water. Seek medical advice if necessary

Self-protection of the first aider: -

### 4.2 Most important symptoms & effects both acute & delayed

Dust: Skin irritation, eye irritations and redness

### 4.3 Indication of any immediate medical attention and special treatment needed: -

Treat symptomatically.  
(Decontamination, vital functions)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing agents: Water, foam, dry chemical powder

Product name: **POLYLAC ® ABS**

Version 7

Revision Date: November 15, 2024  
Print Date: November 15, 2024

For safety reasons unsuitable extinguishing agents: -

**5.2 Special hazards arising from the substance or mixture: -**

**5.3 Advice for firefighters**

Protective equipment: Self-contained breathing apparatus

Further measures: -

**5.4 Additional information: -**

**Section 6. Accidental release measures**

**6.1 Personal precautions, protective equipment & emergency procedures**

Pellets or powder remained on ground may cause slipping  
Wear protective equipment  
Ensure adequate ventilation  
Keep away from ignition sources  
Keep unprotected persons away

**6.2 Environmental precautions**

Gather pellets and powder thoroughly to avoid birds or fishes taking from draining water.  
Do not allow product to reach sewage system or water bodies. Inform respective authorities in case product reaches water, sewage system or soil

**6.3 Methods and material for containment and cleaning up**

Recovery if not contaminated or disposal

**6.4 Reference to other sections**

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

**Section 7. Handling and storage**

**7.1 Precautions for safe handling**

Protective measures: -

Measures to prevent fire: Prevent from fire around handling area

Measures to prevent aerosol and dust generation: maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of powder, electrostatics eliminators and grounding should be fixed to such equipment as air transferring pipes, bag filters and hoppers. Use electrically conductive filters for bag filters.

Measures to protect the environment: -

Advice on general occupational hygiene: -

Product name: **POLYLAC ® ABS**

Version 7

Revision Date: November 15, 2024  
Print Date: November 15, 2024

## 7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: Keep the material at a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Fire is inhibited around storage area.

Requirements for storage rooms and vessels: -

Suitable materials and coating: -

Unsuitable materials or coatings: -

Further information on storage conditions: -

## 7.3 Specific end use(s)

Recommendations: -

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

Exposure Limits: None established

### 8.2 Exposure control

Appropriate engineering controls: Install eyes washer and shower in the place of operation. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits

Personal protection:

- Respiratory protection: Wear masks for cleaning molding machines
- Hand protection: Heat-insulating gloves when handling molten form
- Eye protection: Wear safety glasses for general purpose. Wear chemical goggles for cleaning molding machines
- Skin and body protection: Gloves necessary for handling melted resin
- Hygiene measures: Wash hands after handling

### 8.3 Environmental exposure controls

Product related measures to prevent exposure: None specific

Instruction measures to prevent exposure: None specific

Organizational measures to prevent exposure: None specific

Technical measures to prevent exposure: None specific

Environmental exposure controls: Do not allow product to reach sewage system or water bodies

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                              |                                  |
|----------------------------------------------|----------------------------------|
| Appearance                                   | Physical state: solid, granulate |
| Odour                                        | Odourless or negligible          |
| Colour                                       | White                            |
| Odour threshold                              | No data available                |
| pH                                           | Not applicable                   |
| Melting point / freezing point               | Not applicable                   |
| Initial boiling point and boiling range      | Not applicable                   |
| Flash point                                  | >400°C                           |
| Evaporation rate                             | Not applicable                   |
| Flammability (solid, gas)                    | Not applicable                   |
| Upper/lower flammability or explosive limits | Not applicable                   |
| Vapour pressure                              | Not applicable                   |
| Vapour density                               | Not applicable                   |

Product name: **POLYLAC ® ABS**

Version 7

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Relative density (H <sub>2</sub> O=1)   | 1.03 - 1.10 g/cm <sup>3</sup> |
| Bulk density                            | Not available                 |
| Solubility(ies)                         | Not soluble                   |
| Partition coefficient (n-octanol/water) | Not available                 |
| Auto-ignition temperature               | >400 °C                       |
| Decomposition temperature               | >280 °C                       |
| Viscosity                               | Not applicable                |
| Explosive properties                    | Not explosive                 |
| Oxidizing properties                    | Not oxidizing                 |

## 9.2 Other safety information: -

### Section 10. Stability and reactivity

**10.1 Reactivity:** Non-reactive under normal handling and storage conditions

**10.2 Chemical stability:** Stable under normal handling and storage conditions

**10.3 Possible hazardous reaction:** -

**10.4 Conditions to avoid:** Avoid excessive heat, flames and all sources of ignition

**10.5 Incompatible materials:** not applicable

**10.6 Hazardous decomposition products:** not applicable

### Section 11. Toxicological information

#### 11.1 Information on toxicological effects

##### Toxicological effects:

- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Lack of data. May cause irritations.
- Eye damage/irritation: Lack of data. May cause irritations.
- Sensitisation to the respiratory tract: Lack of data. Not to be expected
- Skin sensitisation: Lack of data. Not to be expected
- Germ cell mutagenicity/Genotoxicity: Lack of data. Not to be expected
- Carcinogenicity: Lack of data. Not to be expected
- Reproductive toxicity: Lack of data. Not to be expected
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Lack of data.
- Dusts: Irritating to eyes, respiratory system and skin.
- Specific target organ toxicity (repeated exposure): Lack of data.

##### Symptoms

- Dust: Can cause skin, eye and respiratory tract irritation.
- The melted product can cause severe burns.
- Thermal treatment, Processing:
- Irritating to eyes, respiratory system and skin.
- In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts.

Product name: **POLYLAC ® ABS**

Version 7

Revision Date: November 15, 2024  
Print Date: November 15, 2024

## **Section 12. Ecological information**

### **12.1 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.

### **12.2 Persistence and degradability**

#### Further details:

- Biodegradation: Product is not readily biodegradable.
- The product is likely to persist in the environment.

#### Effects in sewage plants:

- In sewage treatment plants it may be separated mechanically.

### **12.3 Bioaccumulative potential**

To avoid bioaccumulation plastics should not be disposed in the sea or in other water environments.

### **12.4 Mobility in soil**

no data available

### **12.5 Results PBT & vPvB assessment**

According to the revised Annex XIII of regulation (EC) 1907/2006 and (EC) 253/2011: No information available on the product as such

### **12.5 Other adverse effects:**

General information: Do not allow to enter into ground-water, surface water or drains.

### **12.7 Additional information: -**

## **Section 13. Disposal considerations**

### **13.1 Waste treatment methods**

Product / Packaging disposal: Dispose in accordance with the current local regulations.

Waste codes according to European Waste Catalogue: -

Waste treatment-relevant information: Inadequate incineration may generate toxic gases such as CO, HCN, AN and SM

Sewage disposal-relevant information: -

Other disposal recommendations: -

Product name: **POLYLAC ® ABS**

Version 7

Revision Date: November 15, 2024  
Print Date: November 15, 2024

**Section 14. Transport information**

**ADR/RID**

**14.1 UN number**

Not applicable

**14.2 UN proper shipping name**

Proper Shipping Name: NOT REGULATED

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packing Group**

Not applicable

**14.5 Environmental hazards**

Not considered environmentally hazardous based on available data

**14.6 Special precautions for user**

Special Provisions: no data available

Hazard identification No: no data available

**ADNR / ADN**

**14.1 UN number**

Not applicable

**14.2 UN proper shipping name**

Proper Shipping Name: NOT REGULATED

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packing Group**

Not applicable

**14.5 Environmental hazards**

Not considered environmentally hazardous based on available data

**14.6 Special precautions for user**

no data available

**IMDG**

**14.1 UN number**

Not applicable

**14.2 UN proper shipping name**

Proper Shipping Name: NOT REGULATED

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packing Group**

Not applicable

**14.5 Environmental hazards**

Not considered environmentally hazardous based on available data

**14.6 Special precautions for user**

EMS Number: Not applicable

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

Not applicable

**ICAO/IATA**

**14.1 UN number**

Not applicable

**14.2 UN proper shipping name**

Proper Shipping Name: NOT REGULATED

**14.3 Transport hazard class(es)**

Product name: **POLYLAC ® ABS**

Version 7

Not applicable

**14.4 Packing Group**

Not applicable

**14.5 Environmental hazards**

Not considered environmentally hazardous based on available data

**14.6 Special precautions for user**

no data available

**Section 15. Regulatory information**

**15.1 Safety, health and environmental regulations /legislation specific for the substance or mixture**

Authorization and / or restrictions on use: None

**15.2 Chemical Safety Assessment**

For this substance a chemical safety assessment is not yet required.

**Section 16. Other information**

**16.1 Indication of changes**

Version 1: First issue according to Regulations (EC) 1907/2006 (REACH) & 1272/2008 (CLP)

**16.2 Abbreviations and acronyms**

|       |                                                           |        |                                                                                    |
|-------|-----------------------------------------------------------|--------|------------------------------------------------------------------------------------|
| AGS   | Ausschuss für Gefahrstoffe                                | LoW    | List of Waste                                                                      |
| AF    | Assessment Factor                                         | MARPOL | MARine POLLution                                                                   |
| BCF   | BioConcentration Factor                                   | MIE    | Minimum Ignition Energy                                                            |
| CAS   | Chemical Abstract Service                                 | N°EC   | European Commission number                                                         |
| CMR   | Carcinogenic, Mutagenic and Reprotoxic                    | NFPA   | National Fire Protection Association                                               |
| CSR   | Chemical Safety Report                                    | NIOSH  | National Institute of Occupational Safety and Health                               |
| DFG   | German Research Foundation                                | NOEC   | No Observed Effect Concentration                                                   |
| DNEL  | Derived No Effect Level                                   | NOELR  | No Observed Effect Loading Rate                                                    |
| EC    | European Commission                                       | OECD   | Organisation for Economic Co-operation and Development                             |
| EC50  | Effective Concentration (required to induce a 50% effect) | OEL    | Occupational Exposure Limit                                                        |
| EEC   | European Economic Community                               | OSHA   | Occupational Safety and Health Administration                                      |
| EWC   | European Waste Catalogue Code                             | PBT    | Persistent Bioaccumulable Toxique                                                  |
| IDLH  | Immediately Dangerous to Life or Health                   | PNEC   | Previsible Non Effect Concentration                                                |
| IBC   | International Bulk Chemical                               | QSAR   | Quantitative Structure-Activity Relationship                                       |
| Koc   | Soil/Water Partition Coefficient                          | STOT   | Specific Target Organ Toxicity                                                     |
| Kow   | Octanol/Water Partition Coefficient                       | TCLo   | Toxic Concentration Low                                                            |
| LC50  | Lethal Concentration 50                                   | TDLo   | Toxic Dose Low                                                                     |
| LD50  | Lethal Dose 50                                            | UN     | United Nations                                                                     |
| LEL   | Lower Explosive Limit                                     | UVCB   | Unknown or Variable Composition Complex Reaction Products, or Biological Materials |
| LL100 | Lethal Loading                                            | vPvB   | very Persistent, very Bioaccumulative                                              |
| LOEC  | Lowest Observed Effect Concentration                      |        |                                                                                    |

**16.3 Key literature references and sources for data**



Product name: **POLYLAC ® ABS**

Version 7

Revision Date: November 15, 2024  
Print Date: November 15, 2024

<http://esis.jrc.ec.europa.eu/>  
<http://echa.europa.eu/>  
<http://gestis-en.itrust.de>

**16.4 Training advice: -**

**16.5 Further information:** According to the guidance version 2.0 for monomers and polymers from the European Chemicals Agency dated as of April 2012, the classification of the polymer takes into account the classification of all its constituents, such as unreacted monomers. These constituents in fact should be taken into account for classification of the polymer. This means that the same classification methods as for mixture should be applied to polymer substances.

In order to determine a classification for the studies about the water soluble fraction as well as the absorption should be performed on the polymer as such.

*To the best of our knowledge and belief, the information contained herein is accurate and obtained from sources believed to be reliable. No representation is made that the information is complete or the material is suitable for all purposes. The final determination as to the suitability of the user's intended use of the material is the sole responsibility of the user. All materials may present unknown hazards even when used in common applications and accordingly, it is the sole responsibility of the user to understand and address all potential hazards, including those identified herein. The information set forth in Sections 11 and 12 reflects data available as of the date hereof. It is anticipated that such data will be updated.*