

# SAFETY DATA SHEETS

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According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

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# **SECTION 1:Identification of the substance**

Product identifiers		
Product name:	Poly(1,4-butene adipate)	
CAS-No.:	25103-87-1	
Relevant identified uses of the substance or mixture and uses advised against		
Identified uses:	Laboratory chemicals, Manufacture of substances	
Details of the supplier of the safety data sheet		
Company:	CHEMLYTE SOLUTIONS CO., LTD	
Address:	A1-3-830, XiXi Center, No. 588, Wenyi West Road, Hangzhou 310000,	
	Zhejiang, China	
Telephone:	+86-(571)-85061365	
Fax :	+86-(571)-85060165	
Emergency telephone number		
Emergency Phone # :	+1-703-527-3887	

# **SECTION 2. HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

This chemical substance is not otherwise classified according to the Globally Harmonized System of Classification and Labelling of Chemical Substances (GHS).

#### 2.2 Label elements

GHS Label Elements	invalid
Pictogram	invalid
Signal	invalid
Hazard Statements	invalid

2.3 Other harmful effects

# PBT (persistent, bioconcentrated, toxic substances) and vPvB (highly persistent and highly bioconcentrated substances) evaluation results

PBT (Persistent, Bioconcentrated, Toxic): Not applicable

N/A

vPvB (highly persistent and highly bioconcentrable substances): Not applicable

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances** Molecular formula



Molecular weight Average molecular weight 12,000

CAS number Chemical name, Common name

25103-87-1 Poly(1,4-butylene adipate)

# **SECTION 4. FIRST AID MEASURES**

#### 4.1 Description of first aid measures

#### **General advice**

Take off immediately any clothing contaminated with the product, seek medical advice/attention, and show this safety data sheet to any doctor who arrives on the scene.

# If inhaled

Remove victim to fresh air. If not breathing, give artificial respiration. Get medical advice/attention.

# In case of skin contact

Immediately rinse thoroughly with water and soap.

# In case of eye contact

Rinse with running water for several minutes. If easy and convenient, remove contact lenses before washing. Seek medical advice.

# If swallowed

Please seek medical help immediately.

# 4.2 Advice for protecting rescuers and special instructions for doctors

Move the patient to a safe place. Consult a doctor. Show this MSDS to the doctor who arrives at the scene.

Inform medical staff of the contamination and ask them to take appropriate protective measures.

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

Depending on the degree of exposure, regular medical examinations are recommended.

# **SECTION 5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

**Fire extinguishing methods and extinguishing** Use fire-fighting measures appropriate to surrounding conditions.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

# 5.3 Fire extinguishing precautions and measures

Unauthorized personnel are prohibited from entering.

If necessary, wear self-contained breathing apparatus to fight fire.

Use appropriate firefighting measures for surrounding fire.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

# 6.1 Personal precautions, protective equipment and emergency procedures

Handle damaged containers or spilled material wearing appropriate protective gear. Wear respiratory protection if necessary.

Do not touch spilled material. Stop the leak if you can do it without risking it.

#### 6.2 Environmental precautions

Do not allow to enter drains/surface or ground water.

6.3 Methods and materials for containment and cleaning up



Small spills: Sweep or vacuum into suitable containers. Clean surrounding area and remove residual material.

Large spills: Collect material in dedicated containers. Avoid dust generation and accumulation. Avoid entry into sewers, surface water and groundwater. Cover with foam to inhibit evaporation. Sweep and clean up the area.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

See Section 13 for information on disposal.

# SECTION 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Precautions for safe operation: No special precautions are required if used correctly.

Provide suitable exhaust ventilation where dust is generated.

Information about fire and explosion prevention: No special measures are required.

# Mixed Hazards and Other Safe Storage Conditions

7.2 Conditions for safe storage, including any incompatibilities

Requirements for repositories and containers: There are no special requirements.

For information on using a common storage facility for storage: Store in a cool place. Store in a dry and ventilated place.

**Further information about storage conditions:** Store in a cool place. Keep the container tightly closed in a dry and ventilated place.

#### 7.3 Additional Information

No data available

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Engineering Controls:

Install a closed system or local exhaust system as much as possible, and operators should not come into direct contact with it. Install showers and eyewash stations at the same time.

# **Control parameters**

Contact Limit: Not required

Additional Information: The list valid during the production period will be used as a basis.

# 8.2 Personal protective equipment:

# General protection and hygiene measures:

Normal precautions should be followed when handling chemicals.

Respiratory protection: No special protective measures are required.

Hand protection:

The glove material must be impermeable and resistant to the product/substance/additive. Due to lack of testing, no recommendations for glove material can be given for the product/preparation/chemical mixture.

When selecting glove material, please pay attention to the material's penetration time, percolation rate and degradation parameters.

**Glove material:** Choosing the right glove depends not only on the material, but also on the quality characteristics and which manufacturer it comes from.



**Time to penetrate into glove material:** Please obtain the exact break-in time from the protective glove manufacturer and observe the actual break-in time.

#### Eye protection: Goggles

Use eye protection that is tested and approved by official standards such as NIOSH (USA) or EN 166 (EU).

**Body protection:** Complete set of chemical protection work clothes. The type of protective equipment must be selected according to the concentration and content of dangerous substances in the specific workplace.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties Appearance Properties: solid Colour: White Odor: No data available Olfaction threshold No data available pH value (specified concentration): Not applicable **Change of conditions** Melting point/freezing point: 56-60 °C Boiling point/initial boiling point and boiling range: 350 °C Flash point: >113 °C Decomposition temperature: No data available Ignition temperature: No data available Explosion Hazard: This product does not pose a risk of explosion **Explosion limit:** Lower limit: no data available Upper limit: no data Saturated vapor pressure: Not applicable Density at 20 °C: 1.019 g/cm<sup>3</sup> Bulk Density: No data available Corresponding density (water=1): No data available Relative vapor density (air=1): Not applicable Evaporation rate: Not applicable Flammability: No data available Solubility: No data available Water: No data available Other solvents: No data available n-octanol/water partition coefficient: No data available Heat of combustion (KJ/mol): No data available Critical pressure (MPa): No data available **Critical temperature (°C):** No data available Viscosity: Dynamic: Not applicable Kinematic: Not applicable



**Other information** 

No data available

# SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity No data available
10.2 Stability No data available
Thermal decomposition/conditions to avoid: Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions No hazardous reactions known.
10.4 Conditions to avoid No data available
10.5 Incompatible materials Strong oxidizing agents
10.6 Hazardous decomposition products No hazardous decomposition products are known.
SECTION 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects Acute toxicity Major irritation/corrosion effects: Skin: No irritation effects. Eyes: No irritation effects. Sensitization: No known sensitizing effects. Data on possible effects on the following groups: CMR effects (carcinogenic, mutagenic, harmful to reproductive system) Germ cell mutagenicity No data available Carcinogenicity No data available Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Apprint on the available

# SECTION 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
Aquatic toxicity: No data available
12.2 Persistence and degradability No data available
12.3 Behavior in environmental systems
Potential for bioaccumulation No data available
Mobility in soil No data available
12.4 Other ecological information
Formula according to EU Directive 76/464/EC containing
the following heavy metals and mixtures: No data available
General notes: Water hazard class 1 (German regulations) (self-assessment by list): slightly hazardous to water
Do not allow undiluted or large quantities of product to come into contact with groundwater, waterways or sewage systems.
PBT and vPvB assessment results
PBT: Not applicable



vPvB: Not applicable Other side effects No data available

# SECTION 13. DISPOSAL CONSIDERATIONS

**13.1 Products** Products that are no longer in use or solutions that cannot be reused need to be handed over to a legally qualified chemical disposal company for disposal.

**13.2 Contaminated packaging** The disposal method is the same as that of products no longer in use.

**13.3 Disposal precautions** Before disposal, please refer to relevant national and local regulations. See Section 8 for safety precautions for disposal personnel.

# **SECTION 14. TRANSPORT INFORMATION**

14.1 United Nations Dangerous Goods Number (UN Number) ADR, ADN, IMDG, IATA Not available 14.2 United Nations (UN) Name ADR, ADN, IMDG, IATA Not available 14.3 Transport Hazard Class ADR, IMDG, IATA **Class** Not available Label -ADN ADN/R Class: Not available 14.4 Packing Group ADR, IMDG, IATA Not available 14.5 Environmental Hazards Maritime Pollutant: Not available 14.6 Special precautions for user Not applicable Annex 2 to MARPOL 73/78 (Agreement on the Prevention of Marine Pollution from Ships) and bulk shipments under the IBC Code Not applicable Transport/Additional information: No data available UN "Standard Regulations": Not available

# **SECTION 15. REGULATORY INFORMATION**

15.1 Regulations/legislation specific to the safety, health and environment of this substance or mixture
Regulations on the Safety Management of Hazardous Chemicals (Decree No. 591 of the State Council of the People's Republic of China)
Catalogue of Hazardous Chemicals (2015 edition): No substances are listed.
Regulations on the Environmental Management of the First Import of Chemicals and the Import and Export of Toxic Chemicals
List of Dangerous Goods (GB12268-2012): Not included
Chemical safety assessment: No chemical safety assessment has been conducted.

# **SECTION 16. OTHER INFORMATION**



#### Disclaimer

The above content is compiled based on the information we can collect and does not represent a guarantee of the product's properties.

If there is relevant new information, we will make corrections in a timely manner. Regarding the data and the evaluation of hazards and toxicity, please conduct a detailed investigation before use, and the laws and regulations of the organization, region and country where the product is used should be given priority.

Considering safety issues, the product should be used immediately after purchase. It is well known that chemicals have "unknown hazards and toxicity", which can vary greatly under different conditions of use and storage conditions. The entire process from opening to storage to disposal of this product must be used by operators who are familiar with professional knowledge and have experience or under the guidance of experts. Every user is responsible for establishing a safe use environment. When the product is not used in accordance with the material safety data sheet or is used with other products and operating processes, the consequences are the responsibility of the user.

#### abbreviation:

PBT: Persistent Bioaccumulative Toxic Substances

IARC: International Agency for Research on Cancer

RTECS: National Institute for Occupational Safety and Health Chemical Toxicity Database

HSDB: Hazardous Substances Database of the National Library of Medicine

ACGIH: American Conference of Governmental Industrial Hygienists