MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Palmitoyl Pentapeptide-4
Product ID : PMKZ2801

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

Identified uses : Body/Skin Care

1.3 Details of the supplier of the safety data sheet

Company : Plamed Green Science Group
Telephone : 0086-29-88211806
0086-29-88215350
E-mail address : sales@plamed.cn
Address : No.69 Jinye Road, Xi'an, Shaanxi, China
Official Website : www.plamed.cn

1.4 Emergency telephone

Emergency Phone # : 0086-29-88211806

SECTION 2: Hazards identification

2.1 Emergency overview

2.2 GHS hazard category

2.3 Labeling elements

2.4 Physical and chemical hazards

2.5 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Ingredient	Concentration or concentration range (Mass fraction, %)	CAS No.
Palmitoyl Pentapeptide-4	**100.0%**	**214047-00-4**

SECTION 4: First aid measures

4.1 Description of first-aid measures

Inhalation: If inhaled, move the patient to fresh air. If discomfort persists, seek immediate medical attention.

Skin contact: Remove contaminated clothing. Rinse skin thoroughly with soap and water. If discomfort persists, seek immediate medical attention.

Contact with eyes: Hold eyelids open. Rinse with running water or saline solution. Seek immediate medical attention.

Swallow: Rinse mouth. Do not induce vomiting. Seek immediate medical attention.

4.2 Advice for rescuers

Move the patient to a safe location.
Consult a physician and provide this Material Safety Data Sheet to the attending doctor.

4.3 Special note for physicians

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use water spray, dry powder, foam, or carbon dioxide extinguishing agents.

Avoid using a direct stream of water, as it may cause flammable liquids to splash and spread the fire.

5.2 Special hazards

No data available

5.3 Firefighting precautions and protective measures

Firefighters must wear self-contained breathing apparatus (SCBA) and full firefighting suits, and attack the fire from the upwind direction.
If possible, move containers from the fire area to an open space.
Immediately evacuate if containers in the fire area have discolored or if sounds are heard from the safety relief devices.
Isolate the accident site and prohibit unauthorized personnel from entering.
Contain and treat firefighting water to prevent environmental contamination.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Emergency responders should wear self-contained breathing apparatus (SCBA), anti-static clothing, and oil-resistant rubber gloves. Do not contact or cross over spilled material.
All equipment used during operations must be grounded.
Shut off the leak source if possible.
Eliminate all ignition sources.
Establish a warning zone based on the affected area of liquid flow, vapor, or dust dispersion. Non-essential personnel should evacuate to a safe area downwind or upwind.

6.2 Environmental precautions

Contain the spill to prevent environmental contamination. Prevent the spill from entering sewers, surface water, and groundwater.

6.3 Methods for containment and removal of spilled chemicals and materials used for disposal

Small spills: Collect spilled liquid in sealed containers where possible. Absorb with sand, activated carbon, or other inert materials, then transfer to a secure location. Do not flush into sewers.
Large spills: Construct containment dikes or dig pits. Seal drainage pipes. Cover with foam to suppress evaporation. Transfer using explosion-proof pumps to tank trucks or specialized collectors for recycling or disposal at waste treatment facilities.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Operators must be specially trained and strictly adhere to operating procedures.
Handling and processing should be conducted in areas equipped with local or general ventilation systems.
Avoid contact with eyes and skin; prevent inhalation of vapors. Refer to Section 8 for personal protective measures.
Keep away from ignition sources and heat. Smoking is strictly prohibited in the workplace.
Use explosion-proof ventilation systems and equipment.
When filling containers, control flow rate and ensure grounding to prevent static electricity buildup.
Avoid contact with incompatible substances such as oxidizers (see Section 10 for incompatible substances).
Handle with care during transportation to prevent damage to packaging and containers.
Empty containers may retain hazardous residues.
Wash hands after use; eating and drinking are prohibited in the workplace.
Equip with appropriate types and quantities of firefighting equipment and leak emergency response devices.

7.2 Precautions for storage

Store product sealed at 2-8°C.
Store separately from oxidizers and food-grade chemicals; do not store together (see Section 10 for incompatible substances).
Keep away from ignition sources and heat.
Warehouses must be equipped with lightning protection systems.
Ventilation systems shall include grounded static dissipation devices.
Use explosion-proof lighting and ventilation equipment.
Prohibit the use of spark-producing tools or equipment.
Storage areas must be equipped with leak response equipment and suitable containment materials.

SECTION 8: Exposure controls/personal protection

8.1 Occupational Exposure Limit :
No data available

8.2 Biological Limit:
No data available

8.3 Monitoring Methods:
Methods for Determining Toxic Substances in Workplace Air: GBZ/T 160.1-GBZ/T 160.81-2004.Guidelines for Procedures for Assessing Exposure to Chemical or Biological Agents in Workplace Air: EN 14042.

8.4 Engineering Controls
Recommended to separate work areas from other operations. Operate in enclosed systems to prevent leakage. Enhance ventilation. Install automatic alarms and emergency ventilation systems. Establish emergency evacuation routes and necessary refuge areas. Set up red zone warning lines, warning signs, and Chinese warning labels, along with communication alarm systems. Provide safety showers and eyewash stations.

8.5 Personal Protective Equipment
Respiratory Protection: Wear filtering half-mask respirators when airborne concentrations exceed permissible limits; use self-contained breathing apparatus during emergency rescue or evacuation.
Hand Protection: Wear oil-resistant rubber gloves.
Eye Protection: Wear chemical safety goggles.
Skin and Body Protection: Wear chemical-resistant work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	White to off-white powder
b) Odor	Characteristic
c) PH	No data available
d) Melting point/freezing point	No data available
e) Initial boiling point and boiling range	No data available
f) Flash point	No data available
g) Evaporation rate	No data available
h) Flammability (solid, gas)	No data available
i) Upper/lower flammability or explosive limits	No data available
j) Vapor pressure	No data available
k) Vapor density	No data available
l) Relative density	No data available
m) Water solubility	No data available
n) Autoignition temperature	No data available
o) Decomposition temperature	No data available
p) Viscosity	No data available
q) Explosive properties	No data available
r) Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Chemical stability
The product is stable when stored sealed at 2-8°C.

10.2 Possibility of hazardous reactions
No data available

10.3 Conditions to avoid
Static discharge, heat, moisture, etc.

10.4 Incompatible materials
No data available

10.5 Hazardous decomposition products
No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects
None

SECTION 12: Ecological information

12.1 Ecotoxicity

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Other adverse effects- none

SECTION 13: Disposal considerations

13.1 Disposal of chemical waste
Recycle whenever possible. If recycling is not feasible, dispose of by incineration.
Do not dispose of this product by discharging into sewers.

13.2 Contaminated packaging
Return containers to the manufacturer or dispose of in accordance with national and local regulations.

13.3 Disposal precautions
Consult national and local regulations before disposal.
Refer to Section 8 for safety precautions for disposal personnel.

SECTION 14: Transport information

14.1 UN number

ADR/RID: -	IMDG: -	IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods	IMDG: Not dangerous goods	IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -	IMDG: -	IATA: -

14.4 Packaging group

ADR/RID: -	IMDG: -	IATA: -

14.5 Environmental hazards

ADR/RID: no	IMDG Marine pollutant: no	IATA: no

14.6 Special precautions for user
No data available

14.7 Transportation precautions
Transport vehicles must be equipped with appropriate types and quantities of firefighting equipment and leak emergency response devices.
Strictly prohibited from being transported together with oxidizing agents, food-grade chemicals, or similar substances.
Vehicles transporting this material must be equipped with flame arresters on their exhaust pipes.
When transported by tank trucks, grounding chains must be used. Baffles may be installed inside the tank to reduce static electricity generated by agitation.

The use of spark-producing machinery or tools for loading and unloading is prohibited.
Transportation during summer is best conducted in the early morning or late evening.
During transit, protect the material from direct sunlight, rain, and high temperatures.
When stopping en route, keep the material away from ignition sources, heat sources, and high-temperature areas.
During road transport, follow designated routes and avoid stopping in residential or densely populated areas.
Rail transport must prohibit coasting.
Transportation in bulk by wooden or concrete vessels is strictly prohibited.
Hazard labels and notices must be affixed to transport vehicles according to relevant regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
None

15.2 Chemical Safety Assessment
None

SECTION 16: Other information

The above content is based on our knowledge and the data information mentioned in this security information table. These are specific to the products mentioned above and should help to take adequate safety precautions.