MATERIAL SAFETY DATA SHEET

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

1.1 Product identifiers

Product name : Bakuchiol
Product ID : PMKZ1503

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 Classification of the substance or mixture- Acute toxicity, oral: Category 5

2.2 Labeling elements

Signal word	**Warning**
Hazard statement	H303: May be harmful if swallowed.
Pictogram	None required for the classification stated above.
Precautionary statements	Avoid ingestion. Wash hands thoroughly after handling. If swallowed or if unwell, seek medical advice.
Storage	Keep container tightly closed and store under the conditions specified in Section 7.
Disposal	Dispose of contents and container in accordance with applicable local regulations.

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Ingredient	**Concentration or concentration range (Mass fraction, %)**	**CAS No.**
Bakuchiol	**≤100.0%**	**10309-37-2**

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice: Consult a physician. Show this safety data sheet to the attending physician.

Inhalation: Move the person to fresh air. If breathing has stopped, provide artificial respiration. Consult a physician.

Skin contact: Wash with soap and plenty of water. Consult a physician.

Contact with eyes: Rinse thoroughly with plenty of water immediately.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
Based on current knowledge, the chemical, physical and toxicological properties have not been fully investigated.

4.3 Indication of any immediate medical attention and special treatment needed
No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Use water spray, alcohol-resistant foam, dry powder or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides.

5.3 Advice for firefighters
If necessary, wear self-contained breathing apparatus for firefighting.

5.4 Further information
No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear personal protective equipment. Avoid breathing vapors, mist or gas.

6.2 Environmental precautions
Prevent the product from entering drains.

6.3 Methods and material for containment and cleaning up
Absorb with inert absorbent material and treat as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
See Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
No data available.

7.2 Conditions for safe storage, including any incompatibilities
Store in a cool place. Keep the container tightly closed and store in a dry, well-ventilated area.
Opened containers must be carefully resealed and stored upright to prevent leakage.Store under inert gas where applicable.

7.3 Specific end use(s)
No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
No data available.

8.2 Exposure controls
Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.
Personal Protective Equipment:
Eye protection: Use protective eyewear tested and approved under appropriate official standards, such as NIOSH (US) or EN 166 (EU).
Skin protection: Wear oil-resistant rubber gloves.Wear protective gloves. Inspect gloves before use. Remove gloves without touching the contaminated outer surface. Dispose of contaminated gloves after use in accordance with applicable regulations and wash and dry hands. Selected protective gloves should comply with EU Directive 89/686/EEC and the relevant EN 376 standard.
Body protection: Impervious protective clothing. Select the type of protective clothing according to the concentration and quantity of the hazardous substance at the specific workplace.
Respiratory protection: Respiratory protection is not required under normal conditions of use. If nuisance exposure is

possible, use a full-face respirator with a multifunction cartridge (US) or an ABEK-type filter (EN 14387). Respiratory protection should be used as a backup to engineering controls, not as a substitute for them. If a full-face respirator is the only means of protection, use a full-face respirator tested and approved by NIOSH (US) or CEN (EU).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Light yellow viscous liquid
b) Odor	Characteristic
c) PH	No data available
d) Melting point/freezing point	No data available
e) Initial boiling point and boiling range	145–147 °C
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	0.96 g/cm3 at 20 °C
m) Water solubility	Insoluble
n) Partition coefficient	log Kow = 6.54 at 25 °C
o) Auto-ignition temperature	No data available
p) Decomposition temperature	No data available
q) Viscosity	No data available

9.2 Other safety information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Reducing agents and oxidizing agents.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Item	Information
Acute toxicity	Oral LD50 (rat): 2,560 mg/kg; intraperitoneal LD50

	(mouse): 94 mg/kg; intravenous LD50 (mouse): 31 mg/kg.
Skin corrosion/irritation	24-hour human patch test: no visible erythema.
Serious eye damage/eye irritation	No data available.
Respiratory or skin sensitization	Does not cause skin sensitization. Patch testing in volunteers showed no sensitization;
Germ cell mutagenicity	Human lymphocyte assay：negative； Salmonella assay：negative.
Carcinogenicity	IARC: No component present at or above 0.1% is identified as a probable, possible or confirmed human carcinogen.
Reproductive toxicity	No data available.
STOT - single exposure	No data available.
STOT - repeated exposure	No data available.
Aspiration hazard	No data available.
Potential health effects - inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Potential health effects - ingestion	May be harmful if swallowed.
Potential health effects - skin	May be harmful if absorbed through skin. May cause skin irritation.
Potential health effects - eyes	May cause eye irritation.
Symptoms and signs of exposure	Based on current knowledge, the chemical, physical and toxicological properties have not been fully investigated.
Additional information	Registry of Toxic Effects of Chemical Substances (RTECS): SL3785000.

SECTION 12: Ecological information

12.1 Ecotoxicity
No data available.

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulative potential
No data available.

12.4 Mobility in soil
No data available.

12.5 PBT and vPvB assessment
No data available.

12.6 Other adverse effects
No data available.

SECTION 13: Disposal considerations

13.1 Disposal of chemical waste

Product:Dispose of remaining and non-recoverable product through a licensed waste disposal company. Do not discharge into sewers. The waste classification must be determined according to the actual composition and applicable local requirements.

Contaminated packaging:Treat as unused product and dispose of in accordance with applicable regulations.

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

SECTION 15: Regulatory information

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

Waste disposal must also comply with applicable national and local requirements.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out based on the available information.

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.