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

1.1. Product identifier

Product form : Fatty acids, mixed, ester
Generic name : LM-23
Trade name : MP Estramol
REACH number : Not available

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

1.2.1. Relevant identified uses

Main use category : Industrial use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the material safety data sheet

Apyree Sdn Bhd
A-5-10, Empire Tower
Jalan SS16/1, Subang Jaya
47500 Selangor, Malaysia
T: +603 5033 1679
F: +603 5033 1689

1.4. Emergency telephone number

Emergency number : Not available

SECTION 2: Hazards identification

2.1. Classification of the Substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Adverse physicochemical, human health and environmental effects
According to ABNT NBR 14725-2, no labelling obligation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : ester oil (<= 100% fatty esters)

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse with water. Take victim to an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth with water. Call Poison Information Centre (www.who.int/ipcs/poisons/centre/directory/en). Consult a doctor/medical service if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Unlikely to cause harmful effects.
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4.3. Indication of any immediate medical attention and special treatment needed

No supplementary information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: AFFF foam. BC powder. Carbon dioxide. Dry sand. Dry chemical powder. Adapt extinguishing media to the environment.
Unsuitable extinguishing media	: Solid water jet ineffective as extinguishing medium.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: DIRECT FIRE HAZARD. Combustible. INDIRECT FIRE HAZARD. Heating increases the fire hazard. Temperature above flashpoint: higher fire/explosion hazard.
Explosion hazard	: No direct explosion hazard.
Reactivity	: On burning: release of (carbon monoxide - carbon dioxide).

5.3. Advice for firefighters

Other information	: No supplementary information available.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Mark the danger area. Exposure to heat: have neighbourhood close doors and windows. Exposure to fire/heat: consider evacuation. Wash contaminated clothes.
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6.1.1. For non-emergency personnel

Protective equipment	: See "Material-Handling" to select protective clothing.
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6.1.2. For emergency responders

Protective equipment	: Use protective measures listed in Section 8.
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6.2. Environmental precautions

Prevent soil and water pollution.

6.3. Methods and material for containment and cleaning up

Method for cleaning up	: Clean contaminated surfaces with an excess of water and soap solution.
Other Information	: No supplementary information available.

6.4. Reference to other sections

Handle waste materials in accordance with the provisions of Section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Smoking, eating and drinking should be prohibited in areas of storage and use.
Handling temperature	: $\geq 10\text{ }^{\circ}\text{C}$ above melting point
Hygiene measures	: Wash hands before break and at end of works. Good standard of personal hygiene.

7.2. Conditions for safe storage, including any incompatibilities

Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: heat sources.
Storage area	: Keep container in a well-ventilated place. Store at ambient temperature. Keep out of direct sunlight. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. correctly labelled. meet the legal requirements.
Packaging materials	: No supplementary information available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Gloves. Protective clothing. Safety glasses.



Materials for protective clothing : GIVE GOOD RESISTANCE: nitrile rubber.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow to amber.
Odour	: Characteristic odour – Sweet odour
pH	: 5-8
Melting point	: No supplementary information available
Freezing point	: $<-5\text{ }^{\circ}\text{C}$
Boiling point	: $> 150\text{ }^{\circ}\text{C}$
Flash point	: $> 150\text{ }^{\circ}\text{C}$ (ASTM D92)
Self ignition temperature	: $> 250\text{ }^{\circ}\text{C}$
Vapour pressure (hPa)	: No data available
Relative vapour density at $20\text{ }^{\circ}\text{C}$	: No data available
Solubility	: No data available
Decomposition temperature	: No data available
Density (kg/m^3)	: ca. $850\text{kg}/\text{m}^3$ ($20\text{ }^{\circ}\text{C}$)

9.2. Other information

Other properties : Oily. Soluble in oils/fats. Soluble in most organic solvents. Insoluble in water

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SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of (carbon monoxide - carbon dioxide).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No supplementary information available.

10.5. Incompatible materials

No supplementary information available.

10.6. Hazardous decomposition products

No supplementary information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

LD50 oral rat	>2000mg/kg Non-toxic
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : According to literature: no environmental hazard.

Ecology - air : No supplementary information available.

Ecology - water : No bioaccumulation data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Water Disposal Method : Dispose of according to local, state and federal regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / AND

14.1 UN number

UN-No. (ADR)	: No dangerous good in sense of transport regulations (including Australian DG Code)
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

14.2 UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

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Proper Shipping Name (IMDG)	:	Not applicable
Proper Shipping Name (IATA)	:	Not applicable
Proper Shipping Name (ADN)	:	Not applicable
Proper Shipping Name (RID)	:	Not applicable
Transport document description (ADR)	:	UN No dangerous good in sense of transport regulations (including Australian DG Code)

14.3 Transport hazard class(es)

ADR	:	
Transport hazard class(es) (ADR)	:	Not applicable
IMDG	:	
Transport hazard class(es) (IMDG)	:	-
IATA	:	
Transport hazard class(es) (IATA)	:	Not applicable
ADN	:	
Transport hazard class(es) (ADN)	:	Not applicable
RID	:	
Transport hazard class(es) (RID)	:	Not applicable

14.4 Packing group

Packing group (ADR)	:	Not applicable
Packing group (IMDG)	:	Not applicable
Packing group (IATA)	:	Not applicable
Packing group (ADN)	:	Not applicable
Packing group (RID)	:	Not applicable

14.5 Environment ental hazards

Dangerous for the environment	:	No
Marine pollutant	:	No
Other information	:	No supplementary information available

14.6 Special Precautions for user

- Overland transport	:	
Transport regulations (ADR)	:	Not subject
- Transport by sea	:	
Transport regulations (IMDG)	:	Not subject
- Air transport	:	
Transport regulations (IATA)	:	Not subject
- Inland waterway transport	:	
No data available	:	
- Rail transport	:	
Transport regulations (RID)	:	Not subject

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

Not applicable

SECTION 15: Regulatory information

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

No additional information available

15.2 Chemical safety assessment

No additional information available

SECTION 16: Other information

SDS Reason for revision	:	No supplementary information available.
Training advice	:	No supplementary information available.
Other information	:	No supplementary information available.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.