



Polymer Add (Thailand) Co; Ltd.

Safety Data Sheet

GLYCEROL MONOSTEARATE (MONOESTER 90%)

Revision date :

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NUMBER

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

| | |
|---------------|---------------------------|
| Chemical Name | GLYCEROL MONOSTEARATE 90% |
| CAS NO. | 31566-31-1 |

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

1. GMS 90 used as lubricants in polyvinylchloride and have been observed to produce some enhanced heat stability.
2. GMS 90 is used in the manufacturing of polypropylene-caps to provide a slip/lubricant effect, in addition to the antistatic effect.
3. GMS is a food additive used as a thickening .

Details of the supplier of the safety data sheet

COMPANY

POLYMER ADD (THAILAND) CO., LTD.
106, Chalaremprakiat, Lor 9, Soi 22, Yak
5,Nongbon, Prawet,Bangkok
Bangkok - 10250
Thailand
Telephone : 0804531391
Email - contact@polymeradd.co.th

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

| | |
|-------------------------------|----------------|
| Physical and Chemical Hazards | Not classified |
| Human Health | Not classified |
| Environment | Not classified |

2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

| | |
|-------------|-------------------------|
| Signal word | No labelling applicable |
|-------------|-------------------------|

2.3 Other hazards

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component

| | |
|-------------------|---------------------------|
| Chemical Name | GLYCEROL MONOSTEARATE 90% |
| CAS NO | 31566-31-1 |
| EC Number | 293-208-8 |
| Molecular Formula | C21H42O4 |
| Molecular Weight | 358.56 g/mol |

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| | |
|----------------------|--|
| Concentration | Glycerol Monoester content 90% other di and tri esters balance 10% |
|----------------------|--|

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice

If you feel unwell, seek medical advice

If inhaled

Remove the victim into fresh air.
Respiratory problems: consult a doctor/medical service.

In case of skin contact

Rinse with water.
Soap may be used.
Take victim to a doctor if irritation persists

In case of eye contact

Rinse with water.
Take victim to an ophthalmologist if irritation persists.

If swallowed

Rinse mouth with water.
Call Poison Information Centre.
Consult a doctor/medical service if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

No supplementary information available

4.3 Indication of any immediate medical attention and special treatment needed

No supplementary information available.

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.

5.2 Special hazards arising from the substance or mixture

DIRECT FIRE HAZARD: Not easily combustible.
In finely divided state: increased fire hazard.
INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard.

5.3 Advice for firefighters

No supplementary information available.

5.4 Further information

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

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Mark the danger area.
 Prevent dust cloud formation, e.g. by wetting.
 Dust production: have neighbourhood close doors and windows.
 Exposure to heat: have neighbourhood close doors and windows.
 In case of dust production: no naked flames or sparks.
 Dust: spark- /explosionproof appliances/lighting equipment

6.2 Environmental precautions

Prevent soil and water pollution.

6.3 Methods and materials for containment and cleaning up

Knock down/dilute dust cloud with water spray.
 Carefully collect the spill/leftovers.
 If melted: allow liquid to solidify before taking it up.
 Scoop solid spill into closing containers or into synthetic bags.
 Clean contaminated surfaces with an excess of water and soap solution

6.4 Reference to other sections

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

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

? 10 °C above melting point

7.2 Information about protection against explosions and fires

7.3 Conditions for safe storage including any incompatibilities

KEEP SUBSTANCE AWAY FROM: ignition sources. (strong) acids. (strong) bases.
 Keep container in a well-ventilated place.
 Store at ambient temperature.
 Keep out of direct sunlight.
 Meet the legal requirements

7.4 Specific end use(s)

No additional information available

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Appropriate engineering controls

Provide adequate ventilation

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Personal protective equipment

Gloves. Protective clothing. In case of dust production: protective goggles. Dust production: dust mask with filter type P2.

Eye/face protection

Safety glasses with side shields

Skin protection

Handle with gloves

Body Protection

Impervious clothing

Respiratory protection

Respiratory protection is not required if good ventilation is maintained

9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| a) Appearance | White to light yellow powder |
| b) Odour | Characteristic odour. Almost odourless |
| c) Odour Threshold | No data available |
| d) pH (% solution in water) | 5 - 8 |
| e) Melting point/freezing point | 65 °C |
| f) Initial boiling point and boiling range | > 250 °C |
| g) Flash point | 220 °C (ASTM D92) |
| h) Evaporation rate | No data available |
| i) Flammability (solid or gas) | No data available |
| j) Upper/lower flammability or explosive limits | No data available |
| k) Vapour pressure | < 0.01 hPa (20°C) |
| l) Vapour density | ca. 0.95 |
| m) Relative density | No data available |
| n) Water solubility | No data available |
| o) Partition coefficient: n-octanol/water | > 5 (estimated) |
| p) Autoignition temperature | > 300 °C |
| q) Decomposition temperature | No data available |
| r) Viscosity | No data available |
| s) Explosive properties | No data available |

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| | |
|---|---|
| t)Oxidizing properties | No data available |
| 9.2 Other safety information | |
| Bulk Density | No data available |
| 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. |
| 11 TOXICOLOGICAL INFORMATION | |
| 11.1 Information on toxicological effects | |
| Acute oral toxicity | > 5000 mg/kg Non-toxic |
| Acute Inhalation toxicity | Not classified |
| Acute dermal toxicity | Not classified |
| Skin corrosion/irritation | No data available |
| Serious eye damage/eye irritation | No data available |
| Respiratory or skin sensitization | Not classified |
| Germ cell mutagenicity | No data available |
| Carcinogenicity | No data available |
| Reproductive toxicity | Not classified |
| Specific target organ toxicity - single exposure | Not classified |
| Specific target organ toxicity - repeated exposure | Not classified |
| Aspiration hazard | Not classified |
| 12 ECOLOGICAL INFORMATION | |
| 12.1 Toxicity | Not classified |
| 12.2 Persistence and degradability | |
| Biodegradation | |

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No additional information available

| | | |
|------|------------------------------------|-------------------------------------|
| 12.3 | Bio accumulative potential | > 5 (estimated) |
| 12.4 | Mobility in soil | No additional information available |
| 12.5 | Results of PBT and vPvB assessment | No additional information available |
| 12.6 | Other adverse effects | No additional information available |

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Do not discharge into drains or the environment. Remove to an authorized waste treatment plant.
No supplementary information available

Contaminated packaging

Scoop solid spill into closing containers, Powdered: do not use compressed air for pumping over spills, Clean contaminated surfaces with a soap solution

14 TRANSPORT INFORMATION

14.1 UN number

| ADR/RID | IMDG | IATA |
|----------------|----------------|----------------|
| Not applicable | Not applicable | Not applicable |

14.2 UN proper shipping name

| ADR/RID | IMDG | IATA |
|----------------|----------------|----------------|
| Not applicable | Not applicable | Not applicable |

14.3 Transport hazard class(es)

| ADR/RID | IMDG | IATA |
|----------------|----------------|----------------|
| Not applicable | Not applicable | Not applicable |

14.4 Packaging group

| ADR/RID | IMDG | IATA |
|----------------|----------------|----------------|
| Not applicable | Not applicable | Not applicable |

14.5 Environmental hazards

| ADR/RID | IMDG Marine pollutant | IATA |
|---------|-----------------------|------|
| No | No | No |

| | | |
|------|------------------------------|-------------|
| 14.6 | Special precautions for user | Not subject |
|------|------------------------------|-------------|

15 REGULATORY INFORMATION



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

No data available

15.2 **Chemical Safety Assessment**

No data available

16 **OTHER INFORMATION**

Month of Creation

March 2023

Month of Revision

March 2027