

METHILAN GMS-AV

1 – IDENTIFICATION

Product name	: METHILAN GMS-AV
Product code	: XP1567
Recommended use of the product	: Ingredient for cosmetic formulations.
Supplier name	: AQIA Química Industrial Ltda.
Address	: Rua Rosa Mafei, 563-Bonsucesso- Guarulhos-SP
Contact phone number	: 55 11 2436-3133 (Monday to Friday, 8 AM to 5.30 PM)
Emergency phone number	: 55 11 2436-3133 (Monday to Friday, 8 AM to 5.30 PM)
Fax number	: 55 11 2436-2145
E-mail	: aqia@aqia.net

2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

a) Hazard classification for human health:

- Acute toxicity – Not classified.
- Skin corrosion / irritation – Not classified.
- Serious eye damage / eye irritation – There is no reference.
- Respiratory sensitizer – There is no reference.
- Skin sensitizer – There is no reference.
- Germ cell mutagenicity - There is no reference.
- Carcinogenicity - There is no reference.
- Toxic to reproduction - There is no reference.
- Effects on or via lactation - There is no reference.
- Specific target organ toxicity following single exposure - There is no reference.
- Specific target organ toxicity following repeated exposure - There is no reference.
- Aspiration hazard - There is no reference.

b) Hazard classification for aquatic environment:

- Acute hazards to the aquatic environment – Not classified.
- Long-term hazards to the aquatic environment – There is no reference.

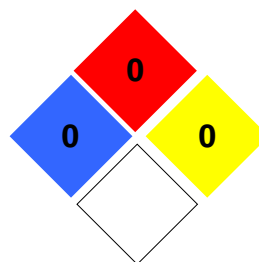
c) Hazard classification for physical hazards:

- Explosives - Not classified.
- Flammable gases - Not classified.
- Aerosols - Not classified.
- Oxidizing gases - Not classified.
- Gases under pressure - Not classified.
- Flammable liquids - Not classified.
- Flammable solids – Not classified.
- Self-reactive substances and mixtures – Not classified.
- Pyrophoric liquids - Not classified.
- Pyrophoric solids - Not classified.
- Self-heating substances and mixtures – Not classified.
- Substances and mixtures, which in contact with water, emit flammable gases - Not classified.

- Oxidizing liquids - Not classified.
- Oxidizing solids - Not classified.
- Organic peroxides - Not classified.
- Corrosive to metals – Not classified.

LABEL ELEMENTS

- Hommel Diamond
Health = 0
Flammability = 0
Reactivity = 0
Specific Risks =

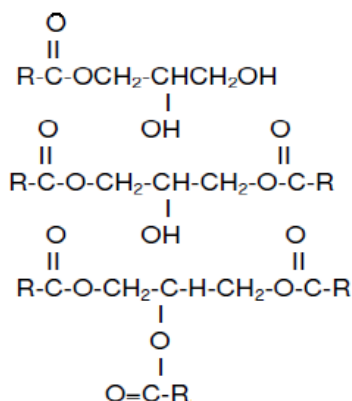


- **Hazard symbols (GHS):** Not applicable.
- **Labelling for transport of dangerous goods:** Not applicable.
- **Signal word:** Not applicable.
- **Hazard statement:** Not applicable.
- **Precautionary statements:** If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
- **Other hazards which do not result in classification:** Not applicable.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE

- **Chemical or common name:** Glyceryl Monostearate
- **Molecular Formula:**



Where: R-C-O fatty acid C16-18

- **INCI name:**
Glyceryl Stearate [EU] ⁽¹⁾
Glyceryl Stearate [US] ⁽²⁾
- **CAS number:**
31566-31-1 / ----- [EU] ⁽¹⁾
123-94-4 / 11099-07-3 / 85666-92-8 [US] ⁽²⁾
- **EINECS number:**
250-705-4 / 286-490-9 [EU] ⁽¹⁾
204-664-4 / 234-325-6 / 250-705-4 [US] ⁽²⁾
- Impurities that contribute to the classification of the product (followed by CAS number and concentration): Not applicable.

4 – FIRST-AID MEASURES

FIRST-AID MEASURES

- **Inhalation:** Remove the victim to fresh air and keep at rest. Seek medical attention.
- **Skin contact:** If on skin, wash with plenty of water and soap for at least 15 minutes. Take off immediately all contaminated clothing and wash it before reuse. Seek medical attention.
- **Eye contact:** If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. Seek medical attention.
- **Ingestion:** Rinse mouth. Seek medical attention, if necessary.

MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED:

- Not available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED (IF NECESSARY):

- Consult this MSDS.

5 – FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Chemical powder, foam and water mist. It is not recommended using jets of water on the product.

SPECIFIC HAZARDS ARISING FROM THE PRODUCT: It may produce toxic fumes of carbon monoxide if burning. Burning may produce carbon monoxide and / or carbon dioxide and nitrogen oxides. Note: Carbon monoxide is highly toxic if breathed. The carbon dioxide concentrations can act as suffocating. Overexposure to combustion products result in respiratory irritation.

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS: Keep containers cool with water.

6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

- a) **For non-emergency responders:** In cases of leaks and spills in large proportions, the report Civil Defense and local environmental agency.
- b) **For emergency responders:** Use personal protective clothing.

ENVIRONMENTAL PRECAUTIONS: Do not dump into the environment. Keep away from drains, surface and groundwater.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Use natural barriers or containment of spillage. Send the spilled material for an environmentally proper treatment.

7 – HANDLING AND STORAGE

HANDLING

- a) Recommendations for safe handling of the product:** Avoid contact with eyes, skin, and clothes.
- b) Advice to minimize the release of the substance or mixture to the environment:** Certify that the product is not leaking.
- c) Appropriate and inappropriate hygiene measures:** Do not eat, drink or smoke while handling product. Wash hands thoroughly before eating, drinking, smoking or using the toilet. Contaminated clothing should be changed and washed before reuse.

STORAGE

- a) Appropriate technical measures:** Keep the product in its original container in a dry, covered, and fresh place, protected from light.
- b) Storage conditions that should be avoided:** High temperatures and incompatible materials.
- c) Packing compatibilities:** Plastic or paper packing.
- d) Shelf life:** The product is valid for 24 months from the date of manufacture.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS / Occupational exposure limits: Not available.

APPROPRIATE ENGINEERING CONTROLS: Emergency shower and eye-washer. Provide exhaustion, if necessary.

INDIVIDUAL PROTECTION MEASURES

- a) Eye / face protection:** Safety glasses/ mask.
- b) Skin protection:** Personal protective equipment.
- c) Respiratory protection:** Mask for dust, if necessary.

9 – PHYSICAL AND CHEMICAL PROPERTIES

- Flash point: 225°C

Specification

- Appearance (25°C):	Flakes
- Color:	White and slightly yellowish
- Acid value (KOH 0.1 N):	0.0 – 6.0 mg KOH/g
- Iodine value:	0.0 – 2.0 g I / 100 g
- Saponification value:	160 – 180 mg KOH/g
- Monoester:	42 – 48 %
- Odor:	Characteristic
- Glycerol:	0.0 – 6.0 %
- Heavy metals (as Pb):	0 – 20 ppm
- Arsenic:	0 – 3 ppm
- Mercury:	0 – 1 ppm
- Lead:	0 – 10 ppm
- C 16:	43 – 54 %
- C 18:	35 – 49 %
- C 16 & 17:	0 – 3 %

10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of handling and storage, if kept at room temperature and in unopened original container.

REACTIVITY: Not reactive.

POSSIBILITY OF HAZARDOUS REACTIONS: If the product is handling and stored properly, there is no risk of hazardous reactions occur.

CONDITIONS TO AVOID: Strong oxidizing agents.

INCOMPATIBLE MATERIALS: Nitric acid, sulfuric acid, chloridric acid, strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Burning may produce carbon monoxide and / or carbon dioxide. Note: The carbon monoxide concentrations can asphyxiate. Overexposure to combustion products may result in respiratory irritation.

11 – TOXICOLOGICAL INFORMATION

a) Acute toxicity (oral):

LD₅₀ (oral, rats): > 15000 mg/Kg

b) Acute toxicity (dermal): Not available.

c) Skin corrosion/irritation: Not available.

d) Serious eye damage/irritation: Not available.

e) Respiratory or skin sensitization: Not available.

f) Germ cell mutagenicity: Not available.

g) Carcinogenicity: Not available.

h) Reproductive toxicity: Not available.

i) STOT-single exposure: Not available.

j) STOT-repeated exposure: Not available.

k) Aspiration hazard. : Not available.

Note: the data reported above were obtained through a literature review. No tests on animals were performed.

12 – ECOLOGICAL INFORMATION

a) Ecotoxicity: No hazards are expected to aquatic organisms.

b) Persistence and degradability: Rapid degradation and low persistence.

c) Bioaccumulative potential: Low bioaccumulation potential.

d) Mobility in soil: There is no reference.

e) Other adverse effects: There is no reference.

Note: the data reported above were obtained through a literature review. No tests on animals were performed.

13 – DISPOSAL CONSIDERATIONS

Recommended methods for treatment and disposal:

a) Product / waste residues: Do not dump into the environment. Incineration or co-processing according to local regulations.

b) Contaminated packaging: The empty packaging may be incinerated or recycled

14 – TRANSPORT INFORMATION

NATIONAL AND INTERNATIONAL REGULATIONS

a) Land

Decreto nº 96.044:1988 – Aprova o Regulamento para o Transporte Rodoviário de Produtos

Perigosos e dá outras providências (Decree nº 96.044:1988 - the Regulation for the Road Transport of Dangerous Products and the other steps Approves).

Resoluções ANTT nº 420:2004, 701:2004, 1644:2006, 2657:98, 2975:08 e 3383:2010 (Resolutions ANTT nº 420:2004, 701:2004, 1644:2006, 2657:98, 2975:08 and 3383:2010).

b) Waterways

DPC – Diretoria de Portos e Costas - Transporte em Águas Brasileiras (DPC - Direction of Ports and Coasts - Transport in Brazilian Waters).

Normas de Autoridade Marítima – NORMAM (Norms of Maritime authorities).

NORMAM 01/DPC: Embarcações Empregadas na Navegação em Mar Aberto (Boats Used in the Navigation in Open Sea).

NORMAM 02/DPC: Embarcações Empregadas na Navegação Interior (Boats Used in the Inland navigation).

IMO – “*International Maritime Organization*” (Organização Marítima Internacional)

International Maritime Dangerous Goods Code (IMDG Code).

c) Air

DAC – Departamento de Aviação Civil: IAC 153–1001. Instrução de Aviação Civil – Normas para o transporte de artigos perigosos em aeronaves civis (DAC - Department of Civil Aviation: IAC 153-1001. Instruction of Civil Aviation - Norms for the dangerous article transport in civil aircraft).

IATA – “*International Air Transport Association*” (Associação Internacional de Transporte Aéreo)

CLASSIFICATION OF DANGEROUS GOODS FOR TRANSPORTATION

- UN number: Not classified as hazardous for transport.
- UN Proper Shipping Name: Not classified as hazardous for transport.
- Transport hazard class: Not classified as hazardous for transport.
- Risk number: Not classified as hazardous for transport.
- Packing group: Not classified as hazardous for transport.

15 – REGULATORY INFORMATION

- Federal Decree No. 2657:1998 - Announces Convention No 170 ILO concerning security in the Use of Chemicals at Work.
- NBR 14725:2012 - Chemicals - Safety, health and environment.

16 – OTHER INFORMATION

AQIA Química Industrial Ltda. recommends the user to read carefully this Material Safety Data Sheet (MSDS) in order to know the hazards associated to the product. The MSDS presents safety information in product handling. The information herein is given in good faith, without thereby incurring any liability, express or implied. It is the user's responsibility to ensure that their activities comply with local, federal, state, and municipal regulations. The information presented here pertains only to the product in its original container. It is obligation of the user to use or determine that the product is handled safely.

REFERENCES

- 1) Site CosIng, Europe
(<http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.simple>)
- 2) International Cosmetic Ingredient Dictionary and Handbook, 14th edition, 2012, USA.

ABBREVIATIONS

- ABNT (*Associação Brasileira de Normas Técnicas*) – Brazilian Association of Technical Norms
- ACGIH (*American Conference of Governmental Industrial Hygienists*) - Conferência Americana de Higienistas Industriais Governamentais
- ANTT (Agência Nacional de Transportes Terrestres) – National Agency of Land Transport
- CAS – *Chemical Abstract Service*

- DAC (*Departamento de Aviação Civil*) – Civil Aviation Department
- DL₀ – It is the maximum dosage tested that does not cause death in a test population.
- DL₅₀ (*Dose Letal Mediana*): Lethal Dose 50% - It is the necessary dosage of a determined substance to kill 50 % of the testing population.
- DPC (*Diretoria de Portos e Costas*) – Directorate of Ports and Coasts
- EINECS (*European Inventory of Existing Chemical Substances*) – Inventário Europeu de Substâncias Químicas Existentes
- FISPQ (*Ficha de Informações de Segurança de Produtos Químicos*) – MSDS
- GHS (Global Harmonized System) – *Sistema Globalmente Harmonizado para a Classificação e Rotulagem de Produtos Químicos*.
- IATA (International Air Transport Association) – *Associação Internacional de Transporte Aéreo*
- IMDG (International Maritime Dangerous Goods Code) – *Código Internacional Marítimo para Materiais Perigosos*
- IMO (International Maritime Organization) – *Organização Internacional Marítima*
- INCI (International Nomenclature of Cosmetic Ingredients) – *Nomenclatura Internacional para Ingredientes Cosméticos*
- LD₀ (*Lethal Dose 0*) – *É a dose máxima testada que não provoca mortalidade em uma população em teste.* / It is the maximum dosage tested that does not cause death in a test population.
- LD₅₀ (*Lethal Dose 50%*) - It is the necessary dosage of a determined substance to kill 50 % of the testing population.
- MTE (*Ministério do Trabalho e Emprego*) – Ministry of Work and Employment
- NBR (*Norma Brasileira*) – Brazilian Norm
- NIOSH (National Institute for Occupational Safety and Health) – *Instituto Nacional para Segurança Ocupacional e de Saúde*
- NORMAM (*Normas de Autoridade Marítima*) – Maritime Authority Norms
- NR – *Normas Regulamentadoras (do Ministério do Trabalho e Emprego)* – Regulatory Norms (of Ministry of Work and Employment)
- OIT (*Organização Internacional do Trabalho*) – International Work Organization
- ONU (*Organização das Nações Unidas*) – United Nations Organization
- OSHA (Occupational Safety & Health Administration) – *Segurança Ocupacional e Administração de Saúde*
- ppb – Partes Por Bilhão / Parts-per-billion
- ppm – Partes Por Milhão / Parts-per-million