

Safety data sheet

according to 1907/2006/EC, Article 31

Date Printed 27.02.2019

Version number 1

Revision Date 24.09.2018

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

- **1.1 Product identifier**
- **Trade name: M Grease**
- **Article number:** AGB7272
- **CAS Number:**
8009-03-8
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
Sealing and lubricating grease for high vacuum applications.
- **Application of the substance / the preparation:** No further information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier.**
Agar Scientific Ltd
Parsonage Lane
Stansted CM24 8GF
United Kingdom
sales@agarscientific.com
Tel: +44 (0) 1279 813 519
- **Further information obtainable from:** Technical Support
- **1.4 Emergency telephone number:** 24 hours: +44 (0)1856 407333

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
This product is not classified as hazardous and therefore there is no legal requirement to provide an SDS in Europe. This document has been compiled for information purposes, in accordance with Regulation (EU) No 453/2010.
- **Classification according to Regulation (EC) No 1272/2008**
The substance is not classified, according to the CLP regulation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**
8009-03-8 M Grease
- **Identification number(s)** No data available.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** None envisaged due to the low vapour pressure of the substance.
- **After skin contact:** Wash with soap and water.
- **After eye contact:** Irrigate with copious amounts of water.
- **After swallowing:** Do not induce vomiting, obtain medical attention.

(Contd. on page 2)

Safety data sheet

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Date Printed 27.02.2019

Version number 1

Revision Date 24.09.2018

Trade name: M Grease
(Contd. of page 1)

- **4.2 Most important symptoms and effects, both acute and delayed**
No adverse effects expected.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No special treatment required.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
Carbon dioxide, dry powder, foam or water fog.
Do not use water jets.
- **5.2 Special hazards arising from the substance or mixture** None.
- **5.3 Advice for firefighters** No special precautions are required.
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Spilt product constitutes a slip hazard. Avoid contact with eyes.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Can be wiped from surfaces and residues cleaned with water and detergent.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
No special measures required.
No special precautions required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
No special precautions required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No special precautions required.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters** No relevant control parameters.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
The level of controls depends on the use. In most cases very small quantities of material are used.
Eye washes should be available for emergency use.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

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Revision Date 24.09.2018

Trade name: M Grease

(Contd. of page 2)

- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Wash hands after use. For prolonged or repeated skin contact gloves are recommended.

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

- | | |
|---------------------------|---------------------------|
| · Appearance: | Semi-solid yellow grease. |
| · Form: | Viscous |
| · Colour: | Yellow |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |

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|--------------------|-----------------|
| · pH-value: | Not applicable. |
|--------------------|-----------------|

· Change in condition

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|---|----------|
| Melting point/freezing point: | 40-60 °C |
| Initial boiling point and boiling range: | >450 °C |

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| · Flash point: | >200 °C |
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| · Flammability (solid, gas): | Product is not flammable. |
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| · Ignition temperature: | >250 °C |
|--------------------------------|---------|

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|-------------------------------------|-----------------|
| · Decomposition temperature: | Not determined. |
|-------------------------------------|-----------------|

- | | |
|-------------------------------------|--------|
| · Auto-ignition temperature: | >250°C |
|-------------------------------------|--------|

- | | |
|--------------------------------|---|
| · Explosive properties: | Product does not present an explosion hazard. |
|--------------------------------|---|

· Explosion limits:

- | | |
|---------------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

- | | |
|------------------------------------|------------|
| · Vapour pressure at 20 °C: | 2.27-9 hPa |
|------------------------------------|------------|

- | | |
|----------------------------|-------------------------|
| · Density at 20 °C: | 0.894 g/cm ³ |
|----------------------------|-------------------------|

- | | |
|------------------------------------|-------------------------|
| · Relative density at 20 °C | 0.894 g/cm ³ |
|------------------------------------|-------------------------|

- | | |
|-------------------------|-----------------|
| · Vapour density | Not applicable. |
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(Contd. on page 4)

Safety data sheet

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Revision Date 24.09.2018

Trade name: M Grease

(Contd. of page 3)

· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Not determined.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· 9.2 Other information	Soluble in aromatic hydrocarbon solvents.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Stable under normal conditions of use.
- **10.2 Chemical stability** Stable under normal conditions of use.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Data not available.
- **10.4 Conditions to avoid** Temperatures >120°C.
- **10.5 Incompatible materials:** Strong oxidising agents.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
Skin and eyes are the most likely routes for exposure. Accidental ingestion may occur. Inhalation is not expected to be a relevant route of exposure.
Low volatility makes inhalation unlikely.
 - **Acute toxicity** Based on available data, the classification criteria are not met.
- | | | |
|--|------|-----------------------|
| · LD/LC50 values relevant for classification: | | |
| Oral | LD50 | >2,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |
- **Skin corrosion/irritation** Repeated and prolonged skin contact may cause dry skin or irritation.
 - **Serious eye damage/irritation** May cause transient irritation.
 - **Respiratory or skin sensitisation** Not expected to be a skin sensitiser.
 - **Other information (about experimental toxicology):**
Aspiration hazard: Not considered an aspiration hazard.
Carcinogenicity/mutagenicity: Not considered a mutagenic hazard or carcinogen. Note N: The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.
 - **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
 - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 - **Carcinogenicity** Based on available data, the classification criteria are not met.
 - **Reproductive toxicity** Based on available data, the classification criteria are not met.
 - **STOT-single exposure** Based on available data, the classification criteria are not met.
 - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
 - **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
When used and/or disposed of as indicated no adverse environmental effects are foreseen. Ecotoxicological effects based on knowledge of similar substances.
Expected to be practically non-toxic.

(Contd. on page 5)

Safety data sheet

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Revision Date 24.09.2018

Trade name: **M Grease**

(Contd. of page 4)

- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Inherently biodegradable.
- **12.3 Bioaccumulative potential** Has the potential to bioaccumulate.
- **12.4 Mobility in soil** Product has low mobility in soil.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
The product does not meet criteria for toxicity which requires further assessment. It is not considered PBT or vPvB.
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No other adverse effects envisaged.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Smaller quantities can be disposed of with household waste.
Product and packaging must be disposed of in accordance with local and national regulations. May be incinerated. Unused product may be returned for reclamation.
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number 	Not relevant.
<ul style="list-style-type: none"> · ADR, ADN, IMDG, IATA 	Void
<ul style="list-style-type: none"> · 14.2 UN proper shipping name 	Not relevant.
<ul style="list-style-type: none"> · ADR, ADN, IMDG, IATA 	Void
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) 	Not relevant.
<ul style="list-style-type: none"> · ADR, ADN, IMDG, IATA · Class 	Void
<ul style="list-style-type: none"> · 14.4 Packing group 	Not relevant.
<ul style="list-style-type: none"> · ADR, IMDG, IATA 	Void
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · 14.6 Special precautions for user 	Not applicable.
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · UN "Model Regulation": 	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Product is not subject to Authorisation under REACH.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

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Trade name: M Grease
(Contd. of page 5)

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 28
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Sales department

- **Contact:**

sales@agarscientific.com

Tel: +44 (0) 1279 813 519

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative