

Magnalube grease Safety data sheet (EU)



1 – Identification of the mixture and the company

1.1 Product identifier

- **Name:** Magnalube-G
- **Appearance:** Gel-like solid (green/blue) in a tube
- **Packaging:** Tube containing 21.25 grams
- **Manufacturer:** Magnalube LLC, 800 Avenue H, Arlington, TX 76011, USA

1.2 Relevant identified uses of the mixture and applications advised against

- Apply as lubricant, grease for Ultimaker 3D products in accordance with the product manual.
- Spread preferably with a cloth and avoid direct contact with skin. Wear gloves if (prolonged) contact cannot be avoided.
- Avoid exposure via inhalation, skin contact or orally. Avoid direct contact with food or transfer via food contact materials.

1.3 Details of the supplier of the safety data sheet

Ultimaker B.V.
Stationsplein 32
3511 ED UTRECHT
The Netherlands

For questions:

Ultimaker B.V.
Tel: +31 (0) 88 383 4000 (office hours only: 9 AM – 5 PM CET)
Mail: product-compliance@ultimaker.com

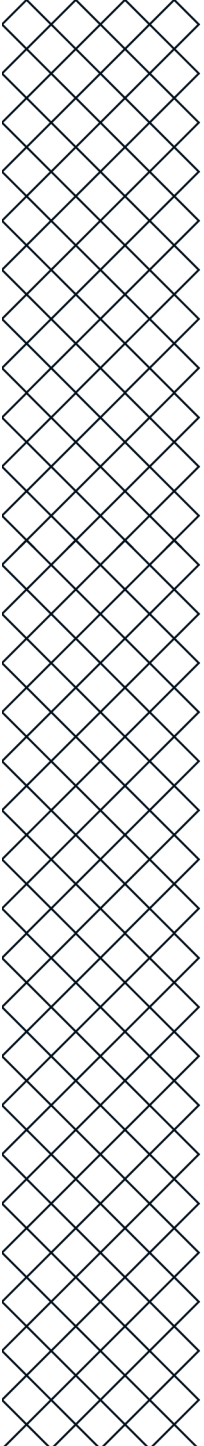
1.4 Emergency and concerns

Contact a doctor and show this SDS.

1.5 Version

Version 1.0; October 2021





2 – Hazards identification

Note: Due to the form of the mixture (gel-like solid in small tube), the risk of significant exposure is negligible. See sections 4 through 8 for applicable measures.

2.1 Classification of the mixture

- Carcinogenic Category 1B
- Aquatic Chronic 3

2.2 Label elements

- H350 May cause cancer 
- H412 Harmful to aquatic life with long lasting effects

2.3 Precautionary statements

- P202 Do not handle until all safety precautions have been read and understood
- P273 Avoid release to the environment
- P280 Wear protective gloves
- P308 If exposed or concerned:
- P313 Get medical advice/attention
- P405 Store locked-up
- P501 Dispose of contents in accordance with local regulations

2.4 Other hazards

- H304 Aspiration hazard – Category 1

Petroleum ingredients on their own may present an aspiration hazard. Due to its form, a small quantity of a gel-like solid in a tube, the risk of Magnalube-G presenting an aspiration hazard is negligible.


3 – Composition and information on ingredients

3.1 Mixture

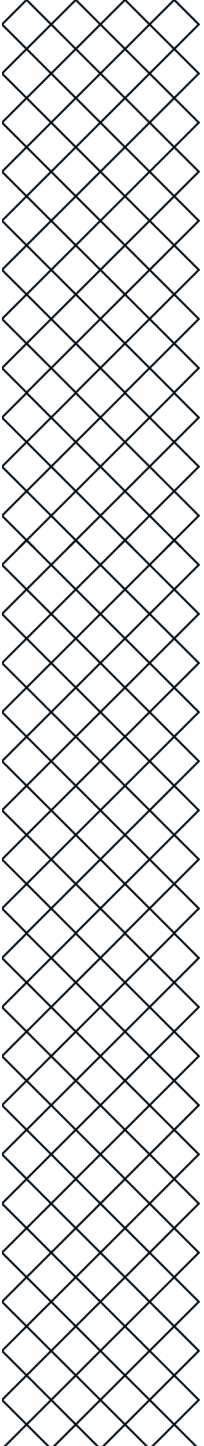
Highly refined oil mixture (lubricating oils, petroleum, base oils), thickener.

3.2 Composition

See the list of ingredients below:

Name ingredient	CAS nr.	Concentration (wt%)	Classification
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	$30 \leq C \leq 60$	Asp. 1; H304 Carc. 1B; H350 
Organic Polyurea Thickener, Proprietary PTFE Thickener (TSCA proprietary compound EPA file # 26847 Non-Hazardous)	ACC26847 9002-84-0	$20 \leq C \leq 24$	-

See the explanation of H-phrases in [section 16](#).



4 – First aid measures

Note: During normal use and given the small quantities supplied, no significant exposure is expected via inhalation, skin contact, or orally.

4.1 Description of first aid measures

- **Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- **Respiratory:** Remove affected person to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur (e.g. sudden shortness of breath).
- **Skin contact:** Wash contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Get medical attention if symptoms occur (irritation).
- **Ingestion:** Rinse mouth with water. Remove affected person to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur (e.g. sudden shortness of breath).

4.2 Most important symptoms and effects, both acute and delayed

No known significant effects or critical hazards

4.3 Indication of any immediate medical attention and special treatment needed

- **Specific treatments:** No specific treatment.
- **Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- **Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. For quantities supplied.

5 - Firefighting measures

5.1 Extinguishing media

- **Suitable extinguishing media:** Use extinguishing agent suitable for the surrounding fire
- **Unsuitable extinguishing media:** None known

5.2 Special hazards arising from the substance or mixture

- **Specific Hazards Arising from the Chemical:** No specific fire or explosion hazard.
- **Hazardous Thermal Decomposition Products:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides.

5.3 Advice for firefighters

- **Special Precautions for Firefighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.



- **Special Protective Equipment for Firefighters:** Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 – Accidental release measures

Note: During normal use and given the small quantities supplied by Ultimaker, accidental release of any significant amount of the mixture is not expected. The information below is relevant where large quantities are used.

6.1 Personal precautions, protective equipment, and emergency procedures

- **For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- **For emergency responders:** If specialised clothing is required to deal with the spillage, take note of any information in [section 8](#) on suitable and unsuitable materials. See also the information in “For non-emergency personnel.”

6.2 Environmental precautions

Avoid dispersal of spilled mixture, runoff, contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

6.3 Methods and material for containment and cleaning up

- **Small spill:** Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- **Large spill:** Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

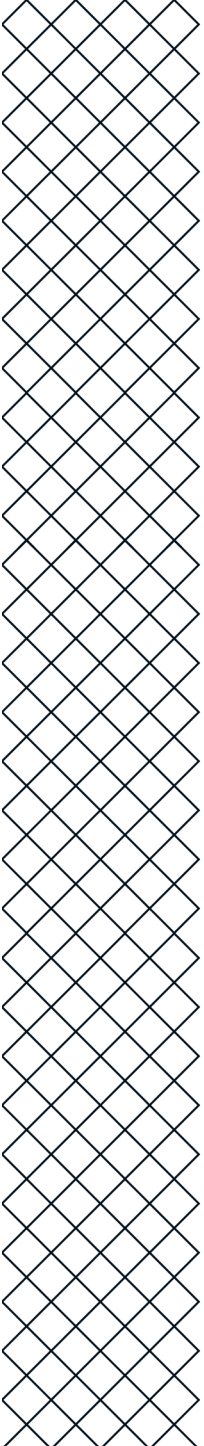
See [section 13](#) for waste disposal information.

7 – Handling and storage

7.1 Precautions for safe handling

- **Protective measures:** Put on appropriate personal protective equipment (see [section 8](#)).
- **Advice on general occupational hygiene:** Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, or smoking. Remove contaminated clothing and protective equipment before entering areas containing food and beverages.

Note: See also [section 8](#) for additional information on hygiene measures.



7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see [section 10](#)) and from food and beverages. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Note: See [section 10](#) for incompatible materials before handling or use.

7.3 Specific end use(s)

None requiring additional measures in relation to 3D printers.

8 – Exposure controls and personal protection

8.1 Control parameters

Substance name	CAS nr.	Occupational Exposure Limit
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	(DNEL) 2.73 mg/m ³ (inhalation, repeated dose toxicity)* (DNEL) 970 µg/kg bw/day (dermal exposure, repeated dose toxicity)*

* DNEL (Derived No Effect Level): Long term systemic effects as listed on the ECHA website under the 'Brief profile'- Scientific Properties

Note: During normal use and given the small quantities supplied, no significant exposure is expected via inhalation, skin contact, or orally.

8.2 Exposure controls

- **Hygiene measures:** After handling chemical products, wash hands, forearms, and face thoroughly before eating, drinking, smoking, and using the lavatory, and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- **Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- **Skin protection:** Chemical-resistant, impervious gloves complying with an approved standard should be always worn when handling chemical products if a risk assessment indicates this is necessary.



9 – Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **Physical State:** Semi-solid (grease)
- **Color:** Blue. Green.
- **Odor:** Mild (or faint), Petroleum oil.
- **Odor threshold:** Not available.
- **pH-Value:** Not applicable.
- **Melting Point:** Not applicable.
- **Boiling Point:** Not applicable.
- **Flash Point:** Not applicable.
- **Evaporation Rate:** Not applicable.
- **Flammability (solid, gas):** Flammable in the presence of the following materials or conditions: open flames, sparks, and static discharge.

- **Lower and Upper Explosive (Flammable) Limits:** Not applicable.
- **Vapor Pressure:** Not available.
- **Vapor Density:** Not available.
- **Relative Density:** 0.89 g/cm³
- **Solubility:** Insoluble in water.
- **Partition Coefficient n-octanol/Water:** Not available.
- **Auto-Ignition Temperature:** Not applicable.
- **Decomposition Temperature:** Not applicable.
- **Viscosity: Kinematic (40°C):** >0.205 cm²/s
- **VOC:** 0 g/L
- **VOC Method:** ASTM E 1868

9.2 Other information

None

10– Stability and reactivity

- **Reactivity:** No specific test data related to reactivity available for this product or its ingredients.
- **Chemical stability** The product is stable.
- **Possibility of hazardous reactions** Under normal conditions of storage and use, hazardous reactions will not occur.
- **Hazardous Polymerization** Will not occur.
- **Conditions to avoid** No specific data.
- **Incompatible materials** No specific data.
- **Hazardous decomposition products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.



11 – Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- **Acute toxicity:** No known significant effects or critical hazards.
- **Skin corrosion/irritation:** No known significant effects or critical hazards.
- **Serious eye damage/ irritation:** No known significant effects or critical hazards.
- **Respiratory sensitisation:** No data available.
- **Skin sensitisation:** No data available.
- **Germ cell mutagenicity:** No data available.
- **Carcinogenicity:** Mixture not tested. Carcinogenic 1B based on harmonized classification ingredients.
- **Reproductive toxicity:** No data available.
- **Specific target organ toxicity:** No data available.
- **Aspiration hazard:** Mixture not tested. Ingredients Category 1. Due to form of mixture and small quantity in tube: no risk expected.

11.2 Information on other hazards

Not applicable.

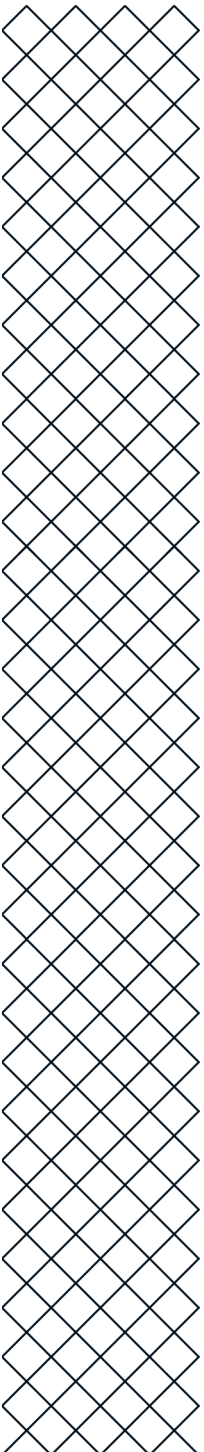
12 – Ecological information

- **Toxicity:** No data available on the mixture.
- **Persistence and degradability:** Not readily biodegradable, no other data available.
- **Bioaccumulative potential:** No data available.
- **Mobility in soil:** No data available.
- **Results of PBT and vPvB assessment:** No data available.
- **Endocrine disrupting properties:** No data available.
- **Other adverse effects:** None known.

13 – Disposal considerations

13.1 Waste treatment methods

Avoid release to the environment. Dispose of packaging and contents in accordance with local regulations.



14– Transport information

14.1 UN number or ID number

Not regulated/ not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

No. While the product according to the manufacturer is to be considered as 'Harmful to aquatic life with long lasting effects' (H412), the nature and size of the packaging supplied in relation to 3D printing is unlikely to provide a hazard.

14.6 Special precautions for user

Ensure persons transporting the product in large quantities know what to do in the event of an accident or spillage. 'Large quantities' normally not relevant in relation to 3D printing applications.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

15– Regulatory information

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

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended: Not listed.
- Regulation (EU) No. 2019/1021 on persistent organic pollutants, Annex I as amended: Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: Not listed.



- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended: Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA: Not listed.

Authorisations

- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended: Not listed.

Restrictions on use

- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended: Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended: Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0).

Other EU regulations

- Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended: Not listed.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out. Given the quantities used and the form Magnalube is provided in, no significant exposure is expected and thus the risk of (over)exposure is negligible.

16– Other information

16.1 General

Magnalube-G is provided to Ultimaker customers in a tube in small quantities. The information in this data sheet is based on information from Magnalube and their SDS and crosschecks have been done with EU-regulations. Much of the information in the Magnalube SDS takes into account that Magnalube itself as a company also sells large quantities and packaging sizes. Where applicable, it is highlighted in various sectors whether or not the information is likely to be of relevance due to the small quantities supplied by Ultimaker.

16.2 Explanation of hazard phrases

- Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters airway
- Carcinogenic, Category 1B H350: May cause cancer
- Aquatic Chronic, Category 3 H412: Harmful to aquatic life with long lasting effects