

Safety data sheet

according to 1907/2006/EC, Article 31

Date Printed 02.02.2022

Version number 1

Revision Date 02.02.2022

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

- **1.1 Product identifier**
- **Trade name: Wax W40**
- **Article number: AGB7241**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
Medium hardness vacuum sealing / mounting wax.
- **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**



Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**
Paraffin oils
- **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
- **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P264	Wash thoroughly after handling.
P280	Wear protective gloves / eye protection / face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 1

Revision Date 02.02.2022

Trade name: Wax W40

(Contd. of page 1)

P362+P364 Take off contaminated clothing and wash it before reuse.
 P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

Traces of hydrogen sulphide may be liberated at high temperatures. Hydrogen sulphide may accumulate in confined spaces and is highly toxic if inhaled in sufficient concentrations. See section 4 for further information. Contact with hot material can cause thermal burns.

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 8012-95-1	Paraffin oils	40-50%
EINECS: 232-384-2	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- **General information:** Immediately remove any clothing soiled by the product.

After inhalation:

No adverse effects are anticipated from inhalation.

If inhalation of mists, fumes or vapour causes irritation remove to fresh air. If casualty does not rapidly recover seek medical attention.

After skin contact:

Wash with water and soap and rinse thoroughly.

In the case of contact with hot product flush affected area with cold water, do not attempt to remove wax. Cover with sterile dressing and obtain medical attention.

After eye contact:

Rinse opened eye under running water. If symptoms persist, consult a doctor.

If in contact with hot product cool the area by flushing with large amounts of cold water. Do not attempt to remove the wax from the burn area. Seek medical attention. If in contact with cold product flush the eye with copious amounts of water, if persistent irritation occurs seek medical attention.

- **After swallowing:** Do not induce vomiting, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

If exposed to hydrogen sulphide fumes the effects will depend on the airborne concentration - 0.02ppm odour threshold, smell of rotten eggs; 10ppm eye and respiratory tract irritation.

4.3 Indication of any immediate medical attention and special treatment needed

In the case of burns do not remove the wax from the skin, it will provide an airtight sterile covering, which will eventually fall away with the scab as the burn heals. If removal is attempted mineral oil (not mineral spirits) or a mineral oil based ointment may be applied to help soften the product.

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

Combustion products include carbon monoxide.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Date Printed 02.02.2022

Version number 1

Revision Date 02.02.2022

 Trade name: **Wax W40**

(Contd. of page 2)

- **5.3 Advice for firefighters**
- **Protective equipment:**
Protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid contact with eyes. Hot product should be handled so that there is no risk of burns.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Molten material should be allowed to cool and solidify before collecting for disposal.
- **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** Avoid contact with hot material to prevent burns.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **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:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
At ambient temperature wax has very low volatility, so development of fumes is highly unlikely. At high temperatures hydrogen sulphide may be released.
- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **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. If heating to apply wax ensure adequate ventilation.
Eye washes should be available for emergency use.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Date Printed 02.02.2022

Version number 1

Revision Date 02.02.2022

Trade name: Wax W40

(Contd. of page 3)

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

Wear heat resistant gloves when handling or applying hot wax.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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:


Tightly sealed goggles

Wear eye protection when handling/applying hot wax.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information

· Appearance:	Black solid. Liquid at high temperature.
· Form:	Solid
· Colour:	Black
· Odour:	Odourless
· Odour threshold:	Not determined.

· pH-value:	Not applicable.
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Change in condition

· Melting point/freezing point:	40-50 °C
· Initial boiling point and boiling range:	>320 °C

· Flash point:	320 °C
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· Flammability (solid, gas):	Not determined.
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· Decomposition temperature:	Not determined.
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· Auto-ignition temperature:	>400°C
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· Explosive properties:	Product does not present an explosion hazard.
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Explosion limits:

· Lower:	Not determined.
· Upper:	Not determined.

· Vapour pressure at 20 °C:	8 hPa
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· Density at 20 °C:	1.017 g/cm ³
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(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 1

Revision Date 02.02.2022

Trade name: Wax W40

(Contd. of page 4)

· Relative density at 20 °C	1.017 g/cm ³
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Insoluble.
· 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:** Data not available.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Temperatures >105°C.
- **10.5 Incompatible materials:** Strong oxidising agents.
- **10.6 Hazardous decomposition products:** Hydrogen sulphide.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

Likely routes of exposure: Skin and eyes are the most likely routes for exposure. Inhalation of vapours at high temperatures is possible. Accidental ingestion may occur. Low volatility makes inhalation unlikely. Avoid vapours from heated materials which may cause irritation.

- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

64741-56-6 Apiezon Wax W

Dermal	LD50	>2,000 mg/kg (rabbit)
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8012-95-1 Paraffin oils

Oral	LD50	22,000 mg/kg (mouse)
		>24,000 mg/kg (rat)
Inhalative	LC50/4 h	2,060 mg/l (rat)

· Specific symptoms in biological assay:

· Skin corrosion/irritation

Causes skin irritation.

Expected to be slightly irritating. Hot material may cause burns.

· Serious eye damage/irritation

Causes serious eye 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.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Date Printed 02.02.2022

Version number 1

Revision Date 02.02.2022

Trade name: **Wax W40**

(Contd. of page 5)

- **Additional toxicological information:**
- **CMR effects (carcinogenicity, 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.
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Not regarded as 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**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
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

- | | |
|--|-----------------|
| · 14.1 UN-Number | Not relevant. |
| · 14.2 UN proper shipping name | Not relevant. |
| · 14.3 Transport hazard class(es) | Not relevant. |
| · 14.4 Packing group | Not relevant. |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Date Printed 02.02.2022

Version number 1

Revision Date 02.02.2022

Trade name: Wax W40
(Contd. of page 6)

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| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | Not classified as hazardous under air (ICAO/IATA), sea (IMDG), road (ADR) or rail (RID) regulations. |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **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.

- **Relevant phrases**
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
- **Department issuing SDS:** Sales department
- **Contact:**
 sales@agarscientific.com
 Tel: +44 (0) 1279 813 519
- **Abbreviations and acronyms:**
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 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
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- *** Data compared to the previous version altered.**