Safety Data Sheet

According to UK REACH (SI 2020/1577) as amended

This version replaces all previous versions

SECTION 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Trade name: Apiezon Wax W40

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

Product category: PC24 Lubricants, greases, release products
Application of the substance / the mixture: Lubricating grease.
Uses advised against: Processes involving extreme heat use advised against.

1.3 Details of the supplier of the safety data sheet

Supplier:
M&I Materials Ltd. Unit 2, Centenary Park,
Coronet Way, Salford, M50 1RE. United Kingdom

Tel: +44 (0)161 864 5409.
Email: apiezontech@mimaterials.com

Further information obtainable from: Product safety department.

1.4 Emergency telephone number:

Members of the public seeking specific information on poisons should contact: In England and Wales:
NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

SECTION 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to GB-CLP: The product is not classified, according to the GB CLP regulation.

2.2 Label elements

Labelling according to GB-CLP: Not applicable
Hazard pictograms: Not applicable
Signal word: Not applicable
Hazard statements: Not applicable

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable
Determination of endocrine-disrupting properties: Not applicable

SECTION 3. Composition/Information on Ingredients

3.2 Mixtures

Description:
A blend of highly refined mineral oils, highly refined paraffinic waxes and multifunctional additives. The ingredients are not classified as hazardous or are below disclosure limits.
Dangerous components: Not applicable
Additional information: Mineral oil contains <3% DMSO extract as measured by IP346.

SECTION 4. First Aid Measures

4.1 Description of first aid measures

General information:

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Immediately remove any clothing soiled by the product. No special measures required.
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact:
Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
In case of contact with molten product:
Flush with cold water. Do not attempt to remove any solidified product adhering to the skin. Cover with sterile dressing and obtain medical attention.
After eye contact:
Check for and remove any contact lenses.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. In case of contact with molten 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.
After swallowing:
Wash mouth out with water
Do not induce vomiting; call for medical help immediately.
Information for doctor: Treat symptomatically and supportively.

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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 or a mineral oil-based ointment may be applied to help soften the product.

SECTION 5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Combustible
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide Sulphur Oxides (SOx)
Hydrogen sulphide (H□S)
Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

Protective equipment:
Wear self-contained respiratory protective device. Wear fully protective suit.
Do not inhale explosion gases or combustion gases.
Additional information
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

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SECTION 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Particular danger of slipping on leaked/spilled product. Ensure adequate ventilation

6.2 Environmental precautions
Do not allow to penetrate the ground/soil.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.

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
Prevent formation of aerosols.
Ensure good ventilation/exhaustion at the workplace.
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: Prevent any seepage into the ground.
Information about storage in one common storage facility:
Store away from oxidising agents. Store away from foodstuffs.
Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
Storage class: 11

7.3 Specific end use(s)
No further relevant information available.

SECTION 8. Exposure Controls/ Personal Protection

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
At elevated temperatures, hydrogen sulphide may be released.

CAS: 7783-06-4 hydrogen sulphide		
WEL	Short-term value: 14 mg/m³, 10 ppm Long-term value: 7 mg/m³, 5 ppm	
DNELs		
CAS: 64741-56-6 Residues (petroleum), vacuum		
Inhalative	Long-term local effects Long-term local effects	2.88 mg/m³ (worker) 610 µg/m³ (general population)
CAS: 64742-62-7 Residual oils (petroleum), solvent dewaxed		

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Oral Inhalative	Long-term systemic effects Long-term systemic effects Long-term local effects Long-term systemic effects	740 µg/kg bw/day (general population) 2.73 mg/m³ (worker) 1.19 mg/m³ (general population) 5.58 mg/m³ (worker) 970 µg/m³ (worker)
PNECs		
CAS: 64742-62-7 Residual oils (petroleum), solvent dewaxed		
Secondary poisoning	9.33 mg/kg food	

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls: No further data; see section 7.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals. Take note of assigned Workplace Exposure Limits.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniff while working.
Do not carry product impregnated cleaning cloths in trouser pockets. Do not inhale gases / fumes / aerosols.
Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
Hand protection:

Protective gloves.
Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation When handling hot material, use heat resistant gloves.
Material of gloves:
Nitrile rubber, NBR Neoprene 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:
Break-through time: >480 minutes
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection:

Wear eye protection when handling/applying hot wax.
Body protection:

Protective work clothing
Body protection must be chosen depending on product properties, activity and possible exposure.

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Environmental exposure controls: Do not allow to enter drains, sewers or watercourses

SECTION 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

General Information

Physical state:	Solid
Colour:	Black
Odour:	Odourless
Melting point/freezing point:	40 – 50 °C
Boiling point or initial boiling point and boiling range:	> 320 °C
Flash point:	320 °C
Auto-ignition temperature:	> 400 °C
pH:	Not applicable
Viscosity	
Kinematic viscosity:	Not applicable
Dynamic:	Not applicable
Solubility	
water:	Insoluble.
Vapour pressure at 20 °C:	< 0.1 hPa
Density and/or relative density	
Density at 20 °C:	1.017 g/cm³
Particle characteristics:	Not applicable

9.2 Other information

NOTE: The physical data presented above are typical values and should not be construed as a specification.

Appearance:	
Form:	Solid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Information with regard to physical hazard classes:	Not applicable

SECTION 10. Stability and Reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Reacts with oxidising agents.

10.4 Conditions to avoid

Heat and static discharge.

10.5 Incompatible materials

Strong oxidising agents.

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10.6 Hazardous decomposition products
Carbon monoxide and carbon dioxide
Hydrogen sulphide
Sulphur oxides (SOx)

SECTION 11. Toxicological Information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
CAS: 64741-56-6 Residues (petroleum), vacuum		
Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rabbit)
CAS: 64742-62-7 Residual oils (petroleum), solvent dewaxed		
Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)

Primary irritant effect:
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
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.
Subacute to chronic toxicity: Prolonged or repeated skin contact may irritate and cause dermatitis.

11.2 Information on other hazards
Endocrine disrupting properties:
None of the ingredients are listed.

SECTION 12. Ecological Information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability
Not easily biodegradable

12.3 Bioaccumulative potential
Has the potential to bioaccumulate.

12.4 Mobility in soil
No further relevant information available.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable

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vPvB: Not applicable

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

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.

SECTION 13. Disposal Considerations

13.1 Waste treatment methods

Recommendation

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

Unused product may be returned for reclamation.

UK List of Waste	
12 00 00	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01 00	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 12*	spent waxes and fats
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances

Uncleaned packaging:

Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.

Containers, even those that are “empty,” may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14. Transport Information

14.1 UN number or ID number

ADR, ADN, IMDG, IATA Not applicable

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14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA	Not applicable
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	Not applicable
14.4 Packing group	
ADR, IMDG, IATA	Not applicable
14.5 Environmental hazards	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable
14.7 Maritime transport in bulk according to IMO instruments	Not applicable
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Not applicable

SECTION 15. Regulatory Information

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

Poisons Act

Regulated explosives precursors: None of the ingredients are listed.
Regulated poisons: None of the ingredients are listed.
Reportable explosives precursors: None of the ingredients are listed.
Reportable poisons: None of the ingredients are listed.

Control Of Major Accident Hazards Regulations 2015 (COMAH)

Named dangerous substances - ANNEX I: None of the ingredients are listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II: None of the ingredients are listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)): None of the ingredients are listed.
Annex II - REPORTABLE EXPLOSIVES PRECURSORS: None of the ingredients are listed.
Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are listed.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: None of the ingredients are 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. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
This Safety Data Sheet is supplied on a voluntary basis.

Department issuing SDS: M&I Materials Ltd. Technical Department

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Abbreviations and acronyms:
UK REACH: REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
GB CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
UFI: Unique Formula Identifier
UK- REACH: The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
GB- CLP: Retained GB CLP Regulation (EU) No. 1272/2008 as amended for Great Britain on the Classification, Labelling and Packaging of Chemicals.
ADR: Accord relatif au transport international 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
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)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

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