

Material Safety data sheet according to 1907/2006/EC, Article 31

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

1.1 Product identifier

- **Trade name: Apiezon Wax W100**
- **Article number: 51-1625-0733**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against.** No further relevant information available.
- **Application of the substance / preparation:** Medium hardness vacuum sealing / mounting wax
- **1.3 Details of the supplier of the safety data sheet Supplier:**
Oxford Instruments NanoAnalysis
Halifax Rd, High Wycombe HP12 3SE
United Kingdom
Tel: +44 (0) 1494 442255
- Further information obtainable from: Technical Support

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 product 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

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.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

- Description: Mixture of substances listed below with nonhazardous additions.
- Dangerous components: Void
- Additional information: For the wording of the listed hazard phrases refer to section 10

SECTION 4: First aid measures

- General information: No special measures required.
- **After 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:** 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:** 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.

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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.

5.3 Advice for firefighters Protective equipment:

Protective equipment including breathing apparatus must be worn when approaching 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: No special measures required.

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: No special measures required.

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: None.

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:

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

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SECTION 9: Physical and chemical properties

- Change in condition** Melting point/freezing point: 50-60 °C
 Initial boiling point and boiling range: >320 °C
- Flash point: 320 °C
 - Flammability (solid, gas): Not determined.
 - Decomposition temperature: Not determined.
 - Auto-ignition temperature: >400 C
 - Explosive properties: Product does not present an explosion hazard.
 - **Explosion limits:** Lower: Not determined. Upper: Not determined.
 - Vapour pressure at 20 °C: 6-9 hPa
 - Density at 20 °C: 1.025 g/cm³
 - Relative density at 20 °C 1.025 g/cm³
 - 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:
 No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Data not available.
- 10.4 Conditions to avoid Temperatures >115°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
 Skin and eyes are the most likely routes for exposure. Inhalation of vapours at high temperatures is possible. Accidental ingestion may occur.
 Acute inhalation toxicity: 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)
- Specific symptoms in biological assay:**
- Skin corrosion/irritation Expected to be slightly irritating. Hot material may cause burns.
 - Serious eye damage/irritation Expected to be slightly irritating. Hot material may cause burns.
 - 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.
- Additional toxicological information: 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

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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: Not known to be hazardous to water.
- 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.
- 12.6 Other adverse effects No further relevant information available.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available

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

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

SECTION 15: Ecological 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 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.