

## Safety Data Sheet

According to OSHA HazCom Standard 29 CFR 1910.1200(g), GHS (Rev. 9, 2021), EU, Regulation 2020/878, CPR and WHMIS 1988

Version No 13 / USA Canada

August 2023

SDS Reference Number: 123082302

Page 1 of 9

This version replaces all previous versions

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

#### 1.1 Product Identifier

**Material Name:** Apiezon Wax W.

**SDS number:** 123082302.

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

**Product use:** Hard vacuum sealing / mounting wax; etch resist.

**Uses advised against:** None.

#### 1.3 Details of the supplier of the substance or mixture

**Company:** M&I Materials Inc. WeWork CODA, Floor 4, 756 West Peachtree Street NW Atlanta, GA 30308, USA.

**Telephone:** +1 404 900 9229.

**Email:** apiezontech@mimaterials.com

#### 1.4 Emergency telephone

**Emergency telephone:** US Toll free: +1 844 835 4911. UK: +44 (0)161 864 5439.

**Opening hours:** 24/7.

#### 1.5 Other comments

**National Poisons Information Service:** NPIS contact details

| Country | Organization/Company    | Address   | Web Address             |
|---------|-------------------------|---|-------------------------|
| USA     | America's Poison Center | Georgia Poison Center<br>80 Jesse Hill Jr Dr<br>SE<br>PO Box 26066<br>Atlanta, GA 30303 | georgiapoisoncenter.org |
| Canada  | Ontario Poison Centre   | The Hospital for Sick Children<br>555 University Ave,<br>Toronto, ON M5G<br>1X8, Canada | ontariopoisoncentre.ca  |

### 2. Hazards Identification

This product is not classified as hazardous and this document has been compiled for information purposes.

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION HCS 29CFR §1910.1200, GHS (Rev. 9, 2021) EU, Regulation 2020/878 and CPR:** Not classified.

#### 2.2 Label elements

Labelling in accordance with regulation HCS 29CFR §1910.1200, GHS (Rev. 9, 2021), EU, Regulation 2020/878 and CPR.

**Signal word:** None.

**Hazard statements:** None.

**Precautionary statements:** None.

**Safety Data Sheet**

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Version No 13 / USA Canada

August 2023

SDS Reference Number: 123082302

Page 2 of 9

This version replaces all previous versions

**NFPA (NATIONAL FIRE PROTECTION AGENCY) RATINGS (SCALE 0-4):**

Health = 0

Fire = 1

Reactivity = 0



**HMIS (HAZARDOUS MATERIALS IDENTIFICATION SYSTEM) RATINGS (SCALE 0-4):**

Health = 0

Fire = 1

Reactivity = 0



**2.3 Other hazards**

Traces of hydrogen sulfide may be liberated at high temperatures. Hydrogen sulfide may accumulate in confined spaces and is highly toxic if inhaled in sufficient concentrations. See 4.2 for further information. Contact with hot material can cause thermal burns.

**3. Composition/Information on Ingredients**

**3.1 Substance**

**Composition:**

| Constituent                     | CAS Number<br>EC Number<br>EU REACH No    | Classification | Concentration<br>(%w/w) |
|---------------------------------|---|----------------|-------------------------|
| Residues (petroleum),<br>vacuum | 64741-56-6<br>265-057-8<br>Not applicable | None           | 100%                    |

All constituents are listed on the TSCA inventory.

**4. First Aid Measures**

**4.1 Description of first aid measures**

**General advice:** Have the product container, label or Safety Data Sheet with you when calling the emergency number, or a physician.

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

**Skin:** 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.

**Eyes:** 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.

**Ingestion:** Do not induce vomiting, obtain medical attention.

## Safety Data Sheet

According to OSHA HazCom Standard 29 CFR 1910.1200(g), GHS (Rev. 9, 2021), EU, Regulation 2020/878, CPR and WHMIS 1988

Version No 13 / USA Canada

August 2023

SDS Reference Number: 123082302

Page 3 of 9

This version replaces all previous versions

### 5. Fire Fighting Measures

#### 4.2 Most important symptoms and effects, both acute and delayed

If exposed to hydrogen sulfide fumes the effects will depend on the airborne concentration - 0.02ppm odor 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.

Treat symptomatically. Do not induce vomiting.

#### 5.1 Extinguishing media

**Suitable extinguishing media:** Carbon dioxide, dry powder, foam or water fog.

**Unsuitable extinguishing media:** Do not use water jets.

#### 5.2 Special hazards arising from the substance or mixture

**Specific hazards during firefighting:** Combustion products include carbon monoxide.

#### 5.3 Advice for fire fighters

**Special protective equipment for firefighters:** Wear full protective clothing and self-contained breathing apparatus.

**Further information:** Cool closed containers exposed to fire with water spray.

**Flash point:** 338°C.

**Auto-ignition temperature:** >400°C.

**Flammability (solid, gas):** Data not available.

**Upper/lower flammability or explosive limits:** Data not available.

**Explosivity:** Data not available.

### 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to protective measures listed in sections 7 and 8.

Avoid contact with eyes. Hot product should be handled so that there is no risk of burns.

#### 6.2 Environmental precautions

No special precautions 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

For disposal considerations see section 13.

Refer to protective measures listed in sections 7 and 8.

### 7. Handling and Storage

#### 7.1 Precautions for safe handling

**Advice on safe handling:** Avoid contact with hot material to prevent burns.

For personal protection see section 8.

## Safety Data Sheet

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Version No 13 / USA Canada

August 2023

SDS Reference Number: 123082302

Page 4 of 9

This version replaces all previous versions

### 7.2 Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feed.

### 7.3 Specific end use(s)

No special precautions required. Opened containers should be properly resealed. For proper and safe use of this product, please refer to the label.

## 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 sulfide may be released.

#### Occupational Exposure Limits:

| Component                    | CAS-No.    | Value type<br>(Form of exposure) | Control parameters   | Basis         |
|------------------------------|------------|----------------------------------|--|---------------|
| Residues (petroleum), vacuum | 64741-56-6 | TWA                              | No relevant control parameters                                 | M&I Materials |
| Hydrogen sulfide             | -          | 8hr TWA<br>STEL                  | 7mg/m <sup>3</sup><br>(5ppm)<br>14mg/m <sup>3</sup><br>(10ppm) | EH40          |

**Biological occupational exposure limits:** N/A

**Derived No Effect Level (DNEL):** N/A

**Predicted No Effect Concentration (PNEC):** N/A

### 8.2 Exposure controls

**Engineering measures:** The extent of these protection measures depends on the actual risks in use. In most cases very small quantities of material are used. If heating to apply wax, ensure adequate ventilation.

#### Personal protective equipment:



**Respiratory protection:** Not required for normal use.

**Skin protection:** Not required for normal use.

**Hand protection:** Wear heat resistant gloves when handling or applying hot wax.

#### Recommended gloves:

**Heat resistant gloves:** Level 2 (250°C)

**Material:** Polyamide, natural latex rubber.

**Glove Type:** Reusable.

**Standards:** EN 388: 2141A; EN 407: X2XXXX

**Break through time:** > 480 min.

**Glove thickness:** >0.5 mm.

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Version No 13 / USA Canada

August 2023

SDS Reference Number: 123082302

Page 5 of 9

This version replaces all previous versions

**Remarks:** Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

**Eye protection:** Wear eye protection when handling/applying hot wax. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Eye washes should be available for emergency use.

### 9. Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

**Appearance:** Black solid. Liquid at high temperature.

**Odor:** None at ambient.

**pH:** Not applicable.

**Melting point:** 80 to 90°C.

**Initial boiling point and boiling range:** >320°C.

**Flash point:** 338°C.

**Flammability (solid, gas):** Data not available.

**Upper/lower flammability or explosive limits:** Data not available.

**Vapor pressure:** Approx  $4.5 \times 10^{-9}$  Torr at 20°C.

**Vapor density:** Not applicable.

**Relative density:** 1.055 at 20°C.

**Water solubility:** Insoluble.

**Solubility:** Soluble in aromatic hydrocarbon solvents.

**Partition coefficient:** n-octanol/water: Data not available.

**Auto-ignition temperature:** >400°C.

**Decomposition temperature:** Data not available.

**Viscosity:** Not applicable.

**Explosive properties:** Data not available.

**Oxidizing properties:** Data not available.

#### 9.2 Other information

Not applicable.

### 10. Stability and Reactivity

#### 10.1 Reactivity

Stable under normal conditions of use.

#### 10.2 Chemical stability

Stable under normal conditions of use.

#### 10.3 Possibility of hazardous reactions

Data not available.

#### 10.4 Conditions to avoid

Temperatures >150°C.

#### 10.5 Incompatible materials

Strong oxidizing agents.

#### 10.6 Hazardous decomposition products

Hydrogen sulfide.

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According to OSHA HazCom Standard 29 CFR 1910.1200(g), GHS (Rev. 9, 2021), EU, Regulation 2020/878, CPR and WHMIS 1988

Version No 13 / USA Canada

August 2023

SDS Reference Number: 123082302

Page 6 of 9

This version replaces all previous versions

### 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 vapors at high temperatures is possible. Accidental ingestion may occur.

**Product:**

**Acute oral toxicity:** Low toxicity: LD50 (Rat, female): >2000mg/kg.

**Acute dermal toxicity:** Expected to be of low toxicity: LD50 (Rat, female): >2000mg/kg.

**Acute inhalation toxicity:** Low volatility makes inhalation unlikely. Avoid vapors from heated materials which may cause irritation.

**Skin corrosion/irritation:** Expected to be slightly irritating. Hot material may cause burns.

**Eye corrosion/irritation:** Expected to be slightly irritating. Hot material may cause burns.

**Respiratory or skin sensitization:** Not expected to be a skin sensitizer.

**Aspiration hazard:** Not considered an aspiration hazard.

**Assessment STOT Specific target organ toxicity – single exposure:** Based on available data, the classification criteria are not met.

**Assessment STOT Specific target organ toxicity – repeated exposure:** Based on available data, the classification criteria are not met.

**Carcinogenicity/mutagenicity:** Not considered a mutagenic hazard or carcinogen. This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

**Assessment toxicity to reproduction:** Based on available data, the classification criteria are not met.

**Assessment developmental toxicity:** Based on available data, the classification criteria are not met.

**Further information:** None.

### 12. Ecological Information

When used and/or disposed of as indicated no adverse environmental effects are foreseen. Eco toxicological effects based on knowledge of similar substances.

#### 12.1 Toxicity

**Product:** Expected to be practically non-toxic.

#### 12.2 Persistence and degradability

Not regarded as inherently biodegradable.

#### 12.3 Bio accumulative potential

Has the potential to bioaccumulate.

#### 12.4 Mobility in soil

Product has low mobility in soil.

#### 12.5 Results of PBT and vPvB assessment

Data not available.

#### 12.6 Endocrine disrupting properties

**Assessment:** The substance/mixture does not contain components considered to have endocrine disrupting properties at levels of 0.1% or higher.

#### 12.7 Other adverse effects

No other adverse effects envisaged.

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According to OSHA HazCom Standard 29 CFR 1910.1200(g), GHS (Rev. 9, 2021), EU, Regulation 2020/878, CPR and WHMIS 1988

Version No 13 / USA Canada

August 2023

SDS Reference Number: 123082302

Page 7 of 9

This version replaces all previous versions

### 13. Disposal Considerations

#### 13.1 Waste treatment methods

**Product:** Do not contaminate any lakes, streams, ponds, groundwater or soil. Avoid flushing into drains.

Product and packaging must be disposed of in accordance with federal, state and local laws.

May be incinerated.

Unused product may be returned for reclamation.

**Contaminated packaging:** Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**RCRA Information:** Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility.

**Waste code:** Uncleaned packaging code 15-01-02 - Empty packaging contaminated with residues of non-hazardous substances.

### 14. Transport Information

**49CFR:** Not dangerous goods / not hazardous material.

Not classified as hazardous under air (ICAO/IATA), sea (IMDG), road (ADR) or rail (RID) regulations.

#### 14.1 UN number

Not relevant.

#### 14.2 UN proper shipping name

Not relevant.

#### 14.3 Transport hazard class

Not relevant.

#### 14.4 Packing group

Not relevant.

#### 14.5 Environmental hazards

Not relevant.

#### 14.6 Special precautions for user

Not relevant.

#### 14.7 Freight Classification

Hard vacuum sealing / mounting wax; etch resist.

### 15. Regulatory Information

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

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR), and the SDS contains all of the information required by the CPR.

Product is exempt from EPA registration.

All constituent substances in this product are listed in the TSCA inventory.

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Version No 13 / USA Canada

August 2023

SDS Reference Number: 123082302

Page 8 of 9

This version replaces all previous versions

**The Superfund Amendments and Reauthorization Act (Sara):**

**Section 355 (extremely hazardous substances):** Substance is not listed.

**Section 313 (Specific toxic chemical listings):** Substance is not listed.

**TSCA (Toxic Substances Control Act):** Substance is listed.

**California Proposition 65, Chemicals known to cause cancer:** Substance is not listed.

**Chemicals known to cause reproductive toxicity for females:** Substance is not listed.

**Chemicals known to cause reproductive toxicity for males:** Substance is not listed.

**Chemicals known to cause developmental toxicity:** Substance is not listed.

**Carcinogenic categories, EPA (Environmental Protection Agency):** Substance is not listed.

**TLV (Threshold Limit Value established by ACGIH):** Substance is not listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health):** Substance is not listed.

**GHS label elements:** None.

**Hazard pictograms:** None.

**Signal word:** None.

**Hazard statements:** None.

**National regulations:** Substance is not listed.

**State Right to Know:** Substance is not listed.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been performed for this substance.

**16. Other Information**

Compiled according to OSHA HazCom Standard 29 CFR 1910.1200(g), GHS (Rev. 9, 2021), EU, Regulation 2020/878, CPR and WHMIS 1988.

**16.1 Changes from last issue:**

Complete review due to update in regulations.

**16.2 Abbreviations and acronyms**

WHMIS: Canadian Workplace Hazardous Materials Information System 1988.

CPR: Canadian Controlled Products Regulations

ADR: The Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

**16.3 Key literature references and sources for data**

Company data.



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Version No 13 / USA Canada

August 2023

SDS Reference Number: 123082302

Page 9 of 9

This version replaces all previous versions

### 16.4 Classification and procedure used to derive the classification

**Further information classification of the mixture:** Not classified.

**Classification procedure:** Based on product data or assessment.

The information provided in this Safety Data Sheet is correct to our best knowledge, information and belief at the date of its publication. It is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.