

# SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

# Safety Data Sheet

Date Effective: March 6, 2013

SPI # 05119-AB

Apiezon® Wax W40

## Section 1: Identification

Chemical Name/Synonyms.....High molecular weight petroleum hydrocarbons, high molecular weight polymers

Chemical family.....Petroleum Hydrocarbon

**Manufacturer** M&I Materials Ltd., Hibernia Way, Trafford Park, Manchester, M32 0ZD, UK.

**Supplier** SPI-Chem™ SPI Supplies Division Structure Probe, Inc.

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Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-527-3887

Worldwide FAX: 1-(703)-741-6090

Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name.....SPI # 05119-AB Apiezon® Wax W40

CAS #'s.....64741-56-6, 8012-95-1

Chemical Formula.....Petroleum Hydrocarbons

Hazardous Material Information System USA (estimated)

Health.....0

Fire Hazard.....1

Reactivity.....0

Personal Protection.....

NFPA Rating (estimated)

Health.....0

Flammability.....1

Reactivity.....0

### GHS Classification

Not classified as dangerous

### Hazard Symbol(s)

No symbol

**Signal Word:** No phrase required

**Hazard Statement(s)**

No hazard statements required

**Precautionary Statement(s)**

None required

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**Section 2: Composition**

Component	CAS#	EINICS#
Residues (petroleum)	64741-56-6	265-057-8
Paraffin oils	8012-95-1	232-384-2

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**Section 3: Hazard Identification**

**Emergency overview:** This material is not classified hazardous by OSHA Hazard Communication Definition. Wax is handled and applied at elevated temperatures with risk of burns. Traces of hydrogen sulfide may be liberated at elevated temperatures.

**CAUTION!**

**Physical Hazards:** No known

**Physical state:** Semi-solid grease

**Color:** Black

**Odor:** None

**Odor threshold:** No data available

**Potential Health Effects:** Routes of exposure: Eye contact, ingestion, skin contact but all are highly unlikely.

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**Section 4: First Aid Measures**

**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.

**Acute and delayed important symptoms/effects:** 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.

**Immediate medical attention and special treatment needs:** 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: Fire Fighting Measures

**Flash Point/Method:** >320°C

**Auto-Ignition Temperature:** >400°C

**Flammable Limits:**

Lower: Not applicable

Upper: Not applicable

**Hazardous Combustion Products:** Carbon monoxide, Hydrogen sulfide

**Special Conditions to Avoid:**

Materials to avoid: Strong oxidizing agents

Conditions to avoid: Temperatures >105°C

**Extinguishing Media:** Use dry chemicals, CO<sub>2</sub>, foam, water fog. Do not use water jets.

**Fire Fighting Instructions**

**Special exposure hazards:** None known

**Special protective equipment:** None needed

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## Section 6: Accidental Release Measures

**Precautions and emergency procedures:** Avoid contact with eyes. Hot product should be handled so that there is no risk of burns.

**Environmental precautions:** No special precautions required.

**Containment and cleaning up:** Molten material should be allowed to cool and solidify before collecting for disposal.

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## Section 7: Handling and Storage

**Handling:** Avoid contact with hot materials to prevent burns

**Storage:** Keep cap tightly screwed on to protect integrity of the product. No other precautions need be taken

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## Section 8: Exposure Controls and Personal Protection

At ambient temperature wax has very low volatility, so development of fumes is highly unlikely. At high temperatures hydrogen sulfide may be released.

**Workspace Exposure Limits:**

Substance	8hr	TWA STEL	Source
Hydrogen sulfide	7mg/m <sup>3</sup> (5ppm)	14mg/m <sup>3</sup> (10ppm)	EH40

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.

**Respiratory protection:** None required.

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

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

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## Section 9: Physical and Chemical Properties

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

**Odor:** None at ambient.

**pH:** Not applicable.

**Melting point:** 40 to 50°C.

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

**Flash point:** 320°C.

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

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

**Vapor pressure:** Approx 6 x 10<sup>-8</sup> Torr at 20°C.

**Vapor density:** Not applicable.

**Relative density:** 1.017 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.

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## Section 10: Stability and Reactivity

**Reactivity:** Stable under normal conditions of use.

**Chemical stability:** Stable under normal conditions of use.

**Possibility of hazardous reactions:** Data not available.

**Conditions to avoid:** Temperatures >105°C.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** Hydrogen sulfide

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## Section 11: Toxicological Information

**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.

**Acute oral toxicity:** Low toxicity: LD50 >5000mg/kg.

**Acute dermal toxicity:** Expected to be of low toxicity: LD50 >2000mg/kg.

**Acute inhalation toxicity:** Low volatility makes inhalation unlikely.

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

**Respiratory or skin sensitisation:** Not expected to be a skin sensitiser.

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

**Carcinogenicity/mutagenicity:** Not considered a mutagenic hazard or carcinogen.

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## Section 12: Ecological Information

**When used and/or disposed of as indicated, no adverse environmental effects are foreseen.**

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

**Persistence and degradability:** Inherently biodegradable.

**Bioaccumulative potential:** Has the potential to bioaccumulate.

**Mobility in soil:** Product has low mobility in soil.

**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.

**Other adverse effects:** No other adverse effects envisaged.

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## Section 13: Disposal Considerations

Product and packaging must be disposed of in accordance with local and national regulations. Unused product may be returned for reclamation provided it has been purchased from SPI Supplies. Contact SPI Supplies sending information about lot number and approximate time of purchase.

This material is NOT classified as a hazardous material by RCRA. Use only licensed transporters and permitted disposal facilities and conform to all laws.

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## Section 14: Transport Information

Not classified as hazardous for transport by air, sea, or road.

**Proper Shipping Name:** Not specified.

**DOT Hazard Class:** Non-Regulated

**UN/NA ID:** Not Regulated

**Packing Group:** Not Applicable

**Labels:** Not Regulated

**Marine Pollutant:** No

**NAER Guidebook:** Not Regulated

**DOT Status:** Not Regulated

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## Section 15: Regulatory Information

### United States Regulations

**SARA Reporting Requirements:** This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

**SARA 311/312:**

Acute Health: No      Chronic Health: No      Fire: No      Reactivity: No

**U.S. SARA Threshold Planning Quantities:** There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

**U.S. CERCLA Reportable Quantity (RQ):** None

**California Proposition 65:** No ingredients

### Canadian Regulations

**Canadian DSL/NDL Inventory Status:** All of the components of this product are on the DSL Inventory.

**Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:** No component of this product is on the CEPA First Priorities Substance Lists.

**Canadian WHMIS Classification And Symbols:** This product is categorized as a Non Controlled Product, as per the Controlled Product Regulations.

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## Section 16: Other Information

### Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

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