

## PureAffin® 1

### 1. Identification

**Product Name:** PureAffin® 1

**Item #:** PARA1

**Synonyms:** N/A

**Recommended Use:** Infiltration Medium

**Restrictions on Use:** N/A

**Manufacturer:**

Cancer Diagnostics, Inc.  
116 Page Point Circle  
Durham, NC 27703  
1-877-846-5393

**In Case of Emergency:**

Chemtrec US 1-800-424-9300  
Infotrac International 1-352-323-3500

### 2. Hazards Identification

**OSHA Hazard Classification(s):**

Not a hazardous substance or mixture

**Signal Word:** N/A

**Hazard Statement(s):** N/A

**Pictogram(s):** N/A

**Precautionary Statement(s):** Prevention: N/A

Response: N/A

Storage: N/A

Disposal: N/A

**Descriptions of Hazards not otherwise classified:** N/A

**Percent of mixture with unknown acute toxicity:** N/A

**Route of Entry:** Inhalation, Skin

**Carcinogenic status:** Not considered carcinogenic by NTP, IARC and OSHA

Target Organs: N/A

**Health Effect:**

Skin: Product is minimally irritating to the skin upon contact. Contact with molten material may cause burns.

Inhalation: Fumes from molten material may cause mild respiratory irritation

### 3. Composition and Information on Ingredients

Chemical Name	Common Name	CAS #	Concentration %
Paraffin		8002-74-2	Trade Secret
Benzene, ethenylmethyl-, polymer with (1-methylethenyl)benzene		9017-27-0	Trade Secret

### 4. First Aid Measures

**Eye Contact:** Flush thoroughly with water. Seek medical attention

**Skin Contact:** Wash contact areas with soap and water. If burned by contact with molten material, seek medical attention.

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**Inhalation:** Avoid inhalation of fumes. If symptoms develop, move victim to fresh air. If symptoms persist, seek medical attention.

**Ingestion:** Product is non-toxic. Should stomach discomfort occur, seek medical attention

**Recommendations for immediate medical care/special treatment:** N/A

### 5. Fire- Fighting Measures

**Extinguishing Media:** Dry chemical, CO<sub>2</sub>, foam or water fog. Treat as an oil fire, do not use stream of water

**Unusual Fire and Explosion Hazards:** N/A

**Special Protective Equipment:** Wear full protective clothing and self-contained breathing apparatus.

**Precautions for Firefighters:** No data available.

### 6. Accidental Release Measures

**Emergency Procedures:** No data available.

**Protective Equipment:** See section 8

**Environmental Precautions:** No data available.

**Containment and Clean-Up Procedures:** Dike or contain molten material. Allow material to solidify, then scrape up solid material. Handle as solid waste clean up. Clean up solid spills to prevent slippery surface conditions.

### 7. Handling and Storage

**Handling:** When heated, the vapor/fumes given off may cause respiratory tract irritation. Handle with care and avoid spillage on the floor as it may create a slippery surface.

**Storage:** Store in cool, dry area away from heat or direct sunlight.

### 8. Exposure Controls/Personal Protection

#### OSHA Permissible Exposure Limits (PELs):

Reagent	CAS #	OSHA PEL TWA
Paraffin	8002-74-2	(Vacated) TWA: 2 mg/m <sup>3</sup>
Benzene, ethenylmethyl-, polymer with (1-methylethenyl)benzene	9017-27-0	No data available

#### ACGIH Threshold Limit Values (TLVs):

Reagent	CAS #	ACGIH PEL TLV	ACGIH STEL
Paraffin	8002-74-2	TWA: 2 mg/m <sup>3</sup>	N/A
Benzene, ethenylmethyl-, polymer with (1-methylethenyl)benzene	9017-27-0	No data available	No data available

**Engineering Controls:** No specific measures necessary. Adequate ventilation to avoid buildup of fumes.

#### Personal Protective Measures and Special PPE Requirements:

##### Solid Phase (Room temperature)

Respiratory protection: No data available

Hand protection: Not required

Eye protection: Not required

Body protection: Not required

##### Liquid Phase (56-58°C)

Respiratory protection: No data available

Hand protection: Insulated gloves recommended to protect hands from molten wax at high temperature

Eye protection: Chemical goggles or safety glasses with side shields.

Body protection: Additional protective clothing and/or equipment as required to prevent contact with molten wax.

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### 9. Physical and Chemical Properties Section

**Appearance:** White, Solid  
**Molecular Weight:** N/A  
**Molecular Formula:** N/A  
**pH:** N/A  
**Boiling Point and Boiling Range:** N/A  
**Melting Point/Freezing Point:** 56-58 °C  
**Flash Point:** 415°F  
**Specific Gravity/Relative Density:** N/A  
**Odor:** Odorless  
**Odor Threshold:** N/A  
**Color:** White  
**Flammability (solid/gas):** N/A  
**Vapor Density:** N/A  
**Upper/Lower flammability or explosive limits:** N/A  
**Vapor Pressure:** N/A  
**Evaporation Rate:** N/A  
**Partition Coefficient: n-octanol/water:** N/A  
**Viscosity:** N/A  
**Auto-ignition temperature:** 245 °C (100% Paraffin)  
**Solubility:** Insoluble in water  
**Decomposition Temperature:** N/A

### 10. Stability and Reactivity

**Reactivity:**  
**Chemical Stability:** Stable under normal conditions.  
**Conditions of Stability/Instability:** N/A  
**Stabilizers needed:** None  
**Safety issue indicated by appearance change:** N/A  
**Other:** N/A  
**Hazardous Reactions:** N/A  
**Hazardous Polymerization:** Does not occur  
**Conditions to avoid:** Avoid heating above 300 F to prevent build-up of fumes.  
**Classes of Incompatible Materials:** Strong Oxidizing Agents  
**Hazardous Decomposition Products:** Material does not decompose at ambient temperatures.

### 11. Toxicological Information

#### Likely Routes of Exposure

**Eyes:** No data available

**Skin:** No data available

**Inhalation:** No data available

**Ingestion:** No data available

**Genotoxicity:** This product is not expected to cause any mutagenic effects.

#### Signs or Symptoms of Exposure:

**Effects from short term exposure (delayed, immediate, chronic):** No data available

#### Acute Toxicity (Numerical Measures):

Oral LD50 : Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50 : Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Mist LC50 : Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.

#### Chronic toxicity carcinogenicity:

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Paraffin: when implanted in rats (120 mg/kg) and mice (480-660 mg/kg), caused tumors of the bladder, lungs and thorax.

*Product does not have any harmful effects based on available information.*

### 12. Ecological Information

**Ecotoxicity:** N/A

**Persistence and degradability:** N/A

**Bioaccumulation Potential (octanol-water partition coefficient, BCF):** N/A

**Mobility in the soil:** N/A

**Adverse Environmental Effects:** N/A

*We have no quantitative data concerning the ecological effects of this product.*

### 13. Disposal Considerations

**Recommended Disposal Containers:** Check with your local waste authorities.\*

**Recommended Disposal Methods:** Do not dispose of in drains, check with your local waste authorities.\*

**Physical/Chemical Properties affecting Disposal:** See section 2 and section 9 applicable information.\*

**Special Precautions for Landfill and Incineration Activities:** Check with your local waste authorities.\*

**Waste Stream:** Consult your local or regional authorities.\*

### 14. Transport Information

<b>14.1 UN Number DOT, IATA,IMDG, ADR</b>	<b>DOT:</b> Not Regulated for Transport by DOT. <b>ADR/RID:</b> Not Regulated for Transport by ADR/RID. <b>IMDG:</b> Not Regulated for Transport by IMDG. <b>IATA:</b> Not Regulated for Transport by IATA.
<b>14.2 UN Proper Shipping Name DOT, IATA,IMDG, ADR</b>	<b>ADR/RID:</b> Not Regulated for Transport by ADR/RID. <b>IMDG:</b> Not Regulated for Transport by IMDG. <b>IATA:</b> Not Regulated for Transport by IATA. <b>DOT:</b> Not Regulated for Transport by DOT.
<b>14.3 Transport Hazard Class(es)</b>	<b>DOT:</b> Not Regulated for Transport by DOT. <b>IATA:</b> Not Regulated for Transport by IATA. <b>IMDG:</b> Not Regulated for Transport by IMDG. <b>ADR/RID:</b> Not Regulated for Transport by ADR/RID.
<b>14.4 Packing Group DOT, IATA,IMDG, ADR</b>	<b>ADR/RID:</b> Not Regulated for Transport by ADR/RID. <b>IMDG:</b> Not Regulated for Transport by IMDG. <b>IATA:</b> Not Regulated for Transport by IATA. <b>DOT:</b> Not Regulated for Transport by DOT.
<b>14.5 Environmental Hazards</b>	<b>Marine Pollutant:</b> No
<b>14.6 Special Precautions for User</b>	Not applicable.

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**15. Regulatory Information**

**OSHA:**

**DOT:**

**EPA:**

**CPSC:**

**EU Label Information:** Labelling has been performed according to EU directives 67/548/EEC and 99/45/EC including Amendments.

**EU Hazard Symbol and Indication of Danger:** Classification has been performed according to EC Commission Directive 67/548/EEC.

**R phrase:** none

**S phrases:** none

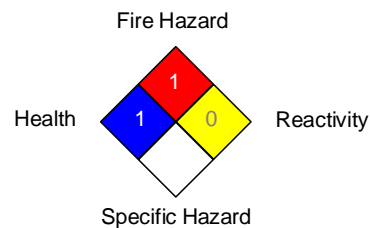
**16. Other Information**

**Revision Date:** 2019-01-11

**NFPA**

Health	1
Fire Hazard	1
Reactivity	0
Specific Hazard	

National Fire Protection Association (USA) NFPA



**HMIS**

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	

Hazardous Material Information System HMIS

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	

**Notice to Reader:**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.