

# Material Safety Data Sheet

## (Paraplast X-TRA)

### Section 1: Chemical Product and Company Identification

<p><b>Product Name:</b> Paraplast X-TRA</p> <p><b>Catalog Number:</b> 19214</p> <p><b>CAS#:</b> See No. 2 below</p>	<p><b>Contact Information:</b>  <b>Electron Microscopy Sciences</b>            1560 Industry Road            Hatfield, PA 19440            1-215-412-8400 (phone)            1-800-523-5874 (toll-free)            1-215-412-8450 (fax)  <b>Order Online: <a href="http://emsdiasum.com">emsdiasum.com</a></b></p> <p><b>CHEMTREC (24-Hour Emergency Telephone), call: 1-800-424-9300</b></p>
---	---

### Section 2: Composition and Information on Ingredients

Component Name	CAS#/Codes	Concentration	R phrases	Classification
Paraffin	8002-74-2	>75.00%	R-None	None
Resin Butylated Hydroxytoluene	proprietary 128-37-0 204-881-4	<25.00% ~1.00%	R-None R-None	None None

### Section 3: Hazards Identification

**EU Main Hazards:** Not classified as hazardous.

**Routes of Entry:** Eye contact and skin contact

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

**Target Organs:** Eye and skin

**Health Effects – Eyes:** Contact may cause slight transient irritation.

**Health Effects – Skin:** Material may cause irritation.

**Health Effects – Ingestion:** A large dose may have the following effects: Nausea, vomiting, diarrhea, abdominal pain, intestinal obstruction, liver damage, and brain damage.

**Health Effects – Inhalation:** No adverse effects are expected during normal conditions of use. Inhalation of paraffin wax fumes during heating may irritate the eyes, nose, and throat.

#### Section 4: First Aid Measures

**Eye Contact:** Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

**Skin Contact:** If skin irritation develops, or other symptoms occur, discontinue use. Seek medical attention if symptoms persist.

**Inhalation:** If there is difficulty in breathing, give oxygen. Seek medical attention if symptoms persist.

**Ingestion:** Do not induce vomiting. Have victim drink 1 to 3 glasses of water to dilute stomach contents. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing. Obtain medical attention immediately.

**Advice to Physicians:** Treat symptomatically.

#### Section 5: Fire and Explosion Data

**Extinguishing Media:** Not flammable. Select extinguishing agent appropriate to other materials involved.

**Unusual Fire and Explosion Hazards:** This product may give rise to hazardous fumes in a fire.

**Protective Equipment for Fire-fighting:** Wear full protective clothing and self-contained breathing apparatus.

#### Section 6: Accidental Release Measures

This product may be collected by carefully scooping into a pan, paper towel or other absorbent material. If wax is hot, let cool before initiating clean up. To clean-up spills of cooled wax, use non-sparking tools to scrape the wax into suitable containers for disposal. Wear appropriate protective clothing.

#### Section 7 : Handling and Storage

Keep container lightly closed when not in use. Storage area should be: cool, dry, well ventilated, away from incompatible materials.

## Section 8: Exposure Controls/Personal Protection

**Occupational Exposure Standards:** Exposure limits are listed below, if they exist.

### Paraffin

**ACGIH:** TLV 2 mg/m<sup>3</sup> 8h TWA (fume).

**UK EH40:** OES 2 mg/m<sup>3</sup> 8h TWA

**UK EH40:** OES 6 mg/m<sup>3</sup> 10min TWA.

### Resin

None assigned

### Butylated hydroxytoluene

ACGIH TLV: 2 mg/m<sup>3</sup> (8h TWA)

OSHA PEL: 10 mg/m<sup>3</sup> (8h TWA) inhalable fraction

### Engineering Control Measures

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels. Heating of this product may generate vapors or fumes, therefore, local exhaust ventilation is recommended to keep airborne concentrations below exposure limits.

### Respiratory Protection

Respiratory protection if there is risk of breathing mists of vapors from heated material. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

### Hand Protection

Chemical resistant gloves.

### Eye Protection

Chemical goggles or safety glasses with side shields.

### Body Protection

Normal work wear.

## Section 9: Physical and Chemical Properties

<b>Physical state:</b>	Solid pellets
<b>Color:</b>	Colorless – White – Translucent
<b>Odor:</b>	Odorless
<b>pH:</b>	No data
<b>Boiling Point:</b>	No data
<b>Melting Point (°C/F)</b>	54/122-129.2
<b>Flash Point (PMCC) (°C/F)</b>	204/400
<b>Auto-flammability ((°C)</b>	245 (for 100% paraffin)
<b>Explosion Limits (%)</b>	No data
<b>Vapor Pressure:</b>	No data
<b>Density:</b>	No data
<b>Solubility in Water:</b>	Insoluble
<b>Vapor Density (Air = 1)</b>	No data
<b>Viscosity (cST)</b>	No data

## Section 10: Stability and Reactivity Data

**Stability:** Stable under normal conditions.

**Conditions to Avoid:** Heat and high temperatures.

**Materials to Avoid:** Reducing agents. Strong acids.

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition Products:** Acrid smoke and irritating fumes. Oxides of carbon.

## Section 11: Toxicological Information

### Acute Toxicity

Low order of acute toxicity predicted.

Paraffin: A 100 mg dose applied to the rabbit eye for 24 hours caused mild irritation. A 500 mg dose applied to the rabbit skin for 24 hours caused mild irritation.

Resin: Oral LD50 (mammal) 7,000 mg/kg.

Butylated Hydroxytoluene: Oral LD50 (rat) 890 mg/kg.

### Chronic Toxicity/Carcinogenicity

Paraffin: when implanted in rats (120 mg/kg) and mice (480-660 mg/kg), caused tumors of the bladder, lungs and thorax. Butylated Hydroxytoluene: IARC assessment: this product is not classifiable as to its carcinogenicity to humans (Group 3).

### Genotoxicity

This product is not expected to cause any mutagenic effects.

### Reproductive/Developmental Toxicity

This product is not expected to cause reproductive or developmental health effects.

## Section 12: Ecological Information

**Mobility:** No relevant studies identified.

**Persistence/Degradability:** No relevant studies identified.

**Bio-accumulation:** No relevant studies identified.

**Ecotoxicity:** No relevant studies identified.

### Section 13: Disposal Considerations

Dispose of in accordance with all applicable local and national regulations.

### Section 14: Transport Information

<b>DOT CFR 172.101 Data:</b>	Not regulated.
<b>UN Proper Shipping Name:</b>	Not regulated.
<b>UN Class:</b>	None
<b>UN Number:</b>	None
<b>UN Packaging Group:</b>	None.
<b>Classification of AIR Transportation (IATA):</b>	Consult current IATA Regulations prior to shipping by air.

### Section 15: Other Regulatory Information

#### EU Label Information

Classification and labeling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments.

#### EU Hazard Symbol and Indication of Danger

According to EC Commission Directive 67/548/EEC this product is not classified.

#### R phrases

None.

#### S phrases.

None.

#### US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

#### TSCA Listing

All ingredients have been verified for inclusion on the EPA Toxic Substance Control Act Chemical Substance Inventory.

#### EINECS Listing

All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.

#### DSL (Canadian) Listing

All ingredients in this product are listed on the Domestic Substance List (DSL).

#### MA Right to Know Law

All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at or above the de minimus concentration include: - Paraffin – Butylated Hydroxytoluene.

#### PA Right to Know Law

This product contains the following chemicals found on the Pennsylvania Hazardous Substance List: - Paraffin – Butylated Hydroxytoluene.

**NJ Right to Know Law**

This product does not contain any chemicals on the New Jersey Workplace Hazardous Substance List – Butylated Hydroxytoluene.

**California Proposition 65**

This product does not contain materials which the state of California has found to cause cancer, birth defects or other reproductive harm.

**SARA Title III Sect. 302 (EHS)**

This product does not contain any chemicals subject to SARA Title III Section 302.

**SARA Title III Section 304**

This product does not contain any chemicals subject to SARA Title III Section 304.

**SARA Title Sect. 311/312 Categorization**

Immediate (Acute) Health Hazard

Delayed (Chronic) Health Hazard

**SARA Title Sect. 313**

This product does not contain a chemical that is listed in Section 313 at or above de minimus concentrations.

**Section 16: Other Information:****NFPA Ratings**

NFPA Code for Flammability: 1

NFPA Code for Health: 1

NFPA Code for Reactivity: 0

NFPA Code for Special Hazards: None

**HMIS Ratings**

HMIS Code for Flammability: 1

HMIS Code for Health: 1

HMIS Code for Reactivity: 0

HMIS Code for Personal Protection: See Section 8.

**Abbreviations**

N/A: Denotes no applicable information found or available.

CAS#: Chemical Abstracts Service Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer.

R: Risk

S: Safety

LC50: Lethal Concentration 50%.

LD50: Lethal Dose 50%

BOD: Biological Oxygen Demand

KoC: Soil Organic Partition Coefficient.

**Last Updated: February 10, 2010**

**Reviewed and Printed: October 27, 2010**

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Electron Microscopy Sciences be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Electron Microscopy Sciences has been advised of the possibility of such damages.*