



SAFETY DATA SHEET

Paraplast Xtra

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

Product Name Paraplast Xtra
Product Description Tissue embedding medium / 8-10 bags per case (1kg/bag)
Product Numbers 39603002
Manufacturer/Supplier Leica Biosystems St. Louis, LLC
Address 5918 Evergreen
St. Louis, MO 63134
Phone Number (314) 522-8671
Emergency Phone Number (314) 522-8671
Revision Date: October 1, 2008
MSDS Date: February 14, 2006

Safety Data Sheet according to EC directive 2001/59/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

EU Main Hazards

Not classified as hazardous.

Routes of Entry

- Eye contact - Skin contact

Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs

- Eye - 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 - 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Paraffin	8002-74-2 232-315-6	> 75.00%	R-None	None
Resin	proprietary	< 25.00%	R-None	None
Butylated hydroxytoluene	128-37-0 204-881-4	~1.00%	R-None	None

4. FIRST AID MEASURES

Eyes

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

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

Ingestion

Do not induce vomiting. Have victim drink 1-3 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.

Inhalation

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

Advice to Physicians

Treat symptomatically.

5. FIRE FIGHTING MEASURES

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.

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 nonsparking tools to scrape the wax into suitable containers for disposal. Wear appropriate protective clothing.

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Paraffin wax fume

ACGIH: TLV 2mg/m³ 8h TWA

UK EH40: OEL 2mg/m³ TWA.

UK EH40: OEL 6mg/m³ STEL.

Resin

None assigned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Butylated hydroxytolueneACGIH TLV: 2 mg/m³ (8hr TWA) measured as inhalable fraction and vapor.UK EH40: OEL 10 mg/m³ TWA.**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 or 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid Pellets
Color	Colorless - White - Translucent
Odor	Odorless
pH	No data.
Boiling Range/Point (°C/F)	No data.
Melting Point (°C/F)	47-65 / 117-149 (depending on grade)
Flash Point (PMCC) (°C/F)	204 / 400
Auto-flammability (deg C)	245 (for 100% paraffin)
Explosion Limits (%)	No data.
Vapor Pressure	No data.
Density	No data.
Solubility in Water	Insoluble
Vapor Density (Air = 1)	No data.
Viscosity (cSt)	No data.

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

- Heat - High temperatures

Materials to Avoid

- Reducing agents - Strong acids



SAFETY DATA SHEET

Paraplast Xtra

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

- acrid smoke and irritating fumes - oxides of carbon

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) 7000mg/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.

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.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data

Not Regulated

UN Proper Shipping Name

Not Regulated

UN Class

None.

UN Number

None.

UN Packaging Group

None.

Classification for AIR

Consult current IATA Regulations prior to shipping by air.

Transportation (IATA)



SAFETY DATA SHEET

Paraplast Xtra

15. REGULATORY INFORMATION

EU Label Information

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments (2001/60/EC and 2006/8/EC)

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 minimis 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 Sect. 304

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

SARA Title III Sect. 311/312 Categorization

Immediate (Acute) Health Hazard

Delayed (Chronic) Health Hazard

SARA Title III Sect. 313

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



SAFETY DATA SHEET

Paraplast Xtra

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 Carbon Partition Coefficient

Prepared By: EnviroNet LLC.

The information and recommendations presented in this SDS are based on sources believed to be accurate; therefore, Leica Biosystems St. Louis, LLC assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the information for their particular purposes.