

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

HistoResin M.M

#### Further trade names

14702231799

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

#### Use of the substance/mixture

plastic

### 1.3. Details of the supplier of the safety data sheet

Company name: Leica Biosystems Nussloch GmbH

Street: Heidelberger Str. 17-19

Place: D Nussloch

Telephone: +49 (0)6224/143-0

Responsible Department:

Responsible for the safety data sheet: sds@gbk-ingelheim.de

### 1.4. Emergency telephone

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

#### number:

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

### 2.2. Label elements

#### Hazardous components which must be listed on the label

methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate

Signal word: Danger

Pictograms: GHS02-GHS07



#### Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P243 Take precautionary measures against static discharge.

P403 Store in a well-ventilated place.

P501 Dispose of contents/container to in accordance with local and national regulations.

### **2.3. Other hazards**

No data available.

## **SECTION 3: Composition/information on ingredients**

### **3.2. Mixtures**

#### **Chemical characterization**

Preparation based on polymethacrylate

#### **Hazardous components**

EC No	Chemical name	Quantity
CAS No		
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
201-297-1	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate	>90 %
80-62-6		
607-035-00-6	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335	
01-2119452498-28		
202-805-4	N,N-dimethyl-p-toluidine	0-5 %
99-97-8		
612-056-00-9	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 3; H301 H311 H331 H373 H412	
01-2119937766-23		

Full text of R, H and EUH phrases: see section 16.

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

Symptoms of poisoning may not occur for many hours, therefore keep under medical supervision for at least 48 hours.

#### **After inhalation**

Ensure of fresh air.

If symptoms persist, call a physician.

#### **After contact with skin**

Immediately wash with water and soap and rinse thoroughly.

#### **After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If eye irritation persists, consult a specialist.

#### **After ingestion**

Call a physician immediately.

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

No data available.

### **4.3. Indication of any immediate medical attention and special treatment needed**

No data available.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Sand, Dry powder

#### **Unsuitable extinguishing media**

water

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

The formation of toxic gases is possible during heating or in case of fire (for example: carbon monoxide and traces of incompletely burned hydrocarbons).

### **5.3. Advice for firefighters**

In case of insufficient ventilation, wear suitable respiratory equipment.

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## **SECTION 6: Accidental release measures**

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

Use personal protection equipment.

Get unprotected persons to safety.

### **6.2. Environmental precautions**

Inform competent authority about release into the sewage, ground or into waters.

### **6.3. Methods and material for containment and cleaning up**

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

### **6.4. Reference to other sections**

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Keep container tightly closed.

Provide appropriate ventilation and exhaust ventilation at the workplaces.

#### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

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

#### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool place

#### **Advice on storage compatibility**

Not required.

#### **Further information on storage conditions**

Store in cool, dry place in tightly closed containers.

### **7.3. Specific end use(s)**

No data available.

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## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

### **8.2. Exposure controls**

#### **Protective and hygiene measures**

Keep away from food, drink and animal feeding stuffs.

Remove and wash contaminated clothing before re-use.

Wash hands before breaks and at the end of workday.

Avoid contact with the skin and the eyes.

#### **Eye/face protection**

Not required.

#### **Hand protection**

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact break through time has to be found out by the manufacturer of the protective gloves.

Chemical safety gloves made of butyl or nitrile rubber of category III according to EN 374.

### **Skin protection**

Light protective clothing ..

### **Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

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## **SECTION 9: Physical and chemical properties**

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

Physical state:	Liquid
Colour:	Colourless
Odour:	characteristic

### **Changes in the physical state**

Initial boiling point and boiling range:	100 °C
Flash point:	10 °C
Lower explosion limits:	2,1 vol. %
Upper explosion limits:	12,5 vol. %
Vapour pressure: (at 20 °C)	47 hPa
Density (at 20 °C):	0,940 g/cm <sup>3</sup>
Ignition temperature:	430 °C
Explosive properties	The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.
Viscosity / dynamic: (at 20 °C)	1 mPa·s

### **9.2. Other information**

No data available.

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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No decomposition if stored and applied as directed.

### **10.2. Chemical stability**

Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**

No hazardous reactions known.

### **10.4. Conditions to avoid**

No data available.

### **10.5. Incompatible materials**

No data available.

### **10.6. Hazardous decomposition products**

None

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute toxicity**

Based on available data, the classification criteria are not met.  
methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate  
CAS-No. 80-62-6  
LD50/oral/rat: > 5000 mg/kg  
LD50/dermal/rabbit: > 5000 mg/kg  
LC50/inhalation: 29,8 mg/l(4h)(Rat )

N,N-dimethyl-p-toluidine 99-97-8

LD50/oral/rat: 500 mg/kg

LC50/inhalation: 1400 mg/l(4h)

**Irritation and corrosivity**

Causes skin irritation.

**Sensitising effects**

May cause an allergic skin reaction. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate)

**STOT-single exposure**

May cause respiratory irritation. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate)

**Severe effects after repeated or prolonged exposure**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

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**SECTION 12: Ecological information**

**12.1. Toxicity**

N,N-dimethyl-p-toluidine 99-97-8

LC50 (96h)/Fish: 100 mg/l

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

Not applicable

**12.6. Other adverse effects**

No data available.

**Further information**

Product is not allowed to discharge into the ground water or aquatic environment.

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Should not be disposed of with household waste.

Do not discharge into the drains/surface waters/ground water.

**Waste disposal number of waste from residues/unused products**

110198 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY; wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising); other wastes containing dangerous substances  
Classified as hazardous waste.

**Contaminated packaging**

Waste disposal according to local regulations.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:** UN 1247  
**14.2. UN proper shipping name:** METHYL METHACRYLATE MONOMER, STABILIZED  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Limited quantity: 1 L  
Transport category: 2  
Hazard No: 339  
Tunnel restriction code: D/E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1247  
**14.2. UN proper shipping name:** METHYL METHACRYLATE MONOMER, STABILIZED  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Limited quantity: 1 L

**Marine transport (IMDG)**

**14.1. UN number:** UN 1247  
**14.2. UN proper shipping name:** METHYL METHACRYLATE MONOMER, STABILIZED  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Special Provisions: -  
Limited quantity: 1 L  
EmS: F-E, S-D

**Air transport (ICAO)**

**14.1. UN number:** UN 1247  
**14.2. UN proper shipping name:** METHYL METHACRYLATE MONOMER, STABILIZED  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Limited quantity Passenger:	1 L	
IATA-packing instructions - Passenger:		353
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		364
IATA-max. quantity - Cargo:		60 L

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

#### **14.6. Special precautions for user**

Not applicable

#### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

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### **SECTION 15: Regulatory information**

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

##### **National regulatory information**

Water contaminating class (D): 2 - water contaminating

#### **15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

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### **SECTION 16: Other information**

#### **Changes**

Changes in chapter: -

#### **Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

DOT = Department of Transportation

TDG = Transport of Dangerous Goods

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

#### **Relevant H- and EUH-phrases (Number and full text)**

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

**Safety Data Sheet** according to Regulation (EC) No 1907/2006

Leica Biosystems Nussloch GmbH

Revision date: 31.03.2015

Revision No: 1,0

**HistoResin M.M**

10695-0002

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#### **Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*