

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

- **1.1 Product identifier**
- **Trade name: Histofluid**
- **UFI:** V410-R0R6-N00W-EH11
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:**
Adhesive and quick-hardening mounting medium for microscopy
- **Uses advised against:** No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Paul Marienfeld GmbH & Co. KG
Am Wöllerspfad 4
97922 Lauda-Königshofen
Germany
Tel.: +49 9343 6272 21
Fax: +49 9343 6272 25
Web: www.marienfeld-superior.com
- **1.4 Emergency telephone number:**
Vergiftungs-Informations-Zentrale Freiburg
Tel.: +49 (0) 761 19240

* SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Flam. Liq. 3 H226 Flammable liquid and vapour.
Acute Tox. 4 H312 Harmful in contact with skin.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.
STOT RE 2 H373 May cause damage to the central nervous system, the kidneys, the liver and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Warning
- **Hazard-determining components of labelling:**
reaction mass of ethylbenzene and xylene
- **Hazard statements**
H226 Flammable liquid and vapour.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

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H335 May cause respiratory irritation.

H373 May cause damage to the central nervous system, the kidneys, the liver and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

Precautionary statements

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

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

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

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH208 Contains methyl methacrylate, n-butyl methacrylate. May produce an allergic reaction.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: No

vPvB: No

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Dangerous components:**

EC number: 905-588-0	reaction mass of ethylbenzene and xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	50 - 70%
CAS: 80-62-6 EC number: 201-297-1 Index number: 607-035-00-6	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	0.1 - 0.4%
CAS: 97-88-1 EC number: 202-615-1 Index number: 607-033-00-5	n-butyl methacrylate Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	0.1 - 0.4%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures**General information:**

Take affected persons out of danger area and lay down.

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

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· **After eye contact:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical treatment.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide

Carbon dioxide

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Wear protective clothing.

Keep away from ignition sources.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about fire and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect from heat.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

* SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 80-62-6 methyl methacrylate

OEL (Ireland)	Short-term value: 100 ppm Long-term value: 50 ppm IOELV, Sens
IOELV (EU)	Short-term value: 100 ppm Long-term value: 50 ppm

· DNELs

reaction mass of ethylbenzene and xylene

Oral	DNEL(long/systemic)	12.5 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	125 mg/kg bw/day (Consumer)
		212 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/local)	65.3 mg/m ³ (Consumer)
		221 mg/m ³ (Workers (Industrial/Professional))
	DNEL(long/systemic)	65.3 mg/m ³ (Consumer)
		221 mg/m ³ (Workers (Industrial/Professional))
	DNEL(short/local)	260 mg/m ³ (Consumer)
		442 mg/m ³ (Workers (Industrial/Professional))
DNEL(short/systemic)	260 mg/m ³ (Consumer)	
		442 mg/m ³ (Workers (Industrial/Professional))

CAS: 80-62-6 methyl methacrylate

Oral	DNEL(long/systemic)	8.2 mg/kg bw/day (Consumer)
Dermal	DNEL(long/local)	1.5 mg/cm ² (Consumer)
		1.5 mg/cm ² (Workers (Industrial/Professional))
Inhalative	DNEL(long/systemic)	8.2 mg/kg bw/day (Consumer)
		13.7 mg/kg bw/day (Workers (Industrial/Professional))
	DNEL(short/local)	1.5 mg/cm ² (Workers (Industrial/Professional))
		104 mg/m ³ (Consumer)
	DNEL(long/local)	208 mg/m ³ (Workers (Industrial/Professional))
		74.3 mg/m ³ (Consumer)
DNEL(long/systemic)	348.4 mg/m ³ (Workers (Industrial/Professional))	
	208 mg/m ³ (Consumer)	
DNEL(short/local)		416 mg/m ³ (Workers (Industrial/Professional))

· PNECs

reaction mass of ethylbenzene and xylene

PNEC(aqua)	0.327 mg/L (freshwater)
	0.327 mg/L (marine water)

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PNEC(STP)	6.58 mg/L (sewage treatment plant)
PNEC(sediment)	12.46 mg/kg sedi. dw (freshwater) 12.46 mg/kg sedi. dw (marine water)
PNEC(soil)	2.31 mg/kg soil dw (soil)
CAS: 80-62-6 methyl methacrylate	
PNEC(aqua)	0.94 mg/L (freshwater) 0.094 mg/L (marine water)
PNEC(STP)	10 mg/L (sewage treatment plant)
PNEC(sediment)	10.2 mg/kg sedi. dw (freshwater) 1.02 mg/kg sedi. dw (marine water)
PNEC(soil)	1.48 mg/kg soil dw (soil)

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

· **Eye/face protection**



Tightly sealed goggles

· **Body protection:** Protective work clothing

· **Environmental exposure controls** No further relevant information available.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

Liquid

· Form:

Fluid

· Colour:

Colourless

· Odour:

Aromatic

· Odour threshold:

Not determined.

· Melting point/freezing point:

Not determined.

· Boiling point or initial boiling point and boiling range

137 °C

· Flammability

Flammable.

· Lower and upper explosion limit

· Lower:

1.1 Vol %

· Upper:

8 Vol %

· Flash point:

~ 23 °C

· Auto-ignition temperature:

> 250 °C

· Decomposition temperature:

Not determined.

· pH

Not determined.

· Viscosity:

· Kinematic viscosity

Not determined.

· Dynamic at 20 °C:

250 - 450 mPas

· Solubility

· water:

Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log value)

80-62-6	reaction mass of ethylbenzene and xylene	3,16 log Pow (20°C, Read-across)
97-88-1	methyl methacrylate	1,38 log Pow (20°C, OECD Guideline 107)
	n-butyl methacrylate	2,99 logPow (20°C, OECD Guideline 107)

· Vapour pressure at 20 °C:

< 8 hPa

· Density and/or relative density

· Density at 20 °C:

0.95 g/cm³

· Relative density

Not determined.

· Vapour density

Not determined.

· Relative gas density

Not determined.

· Particle characteristics

Not applicable.

· 9.2 Other information

· Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Oxidising properties

No

· Evaporation rate

Not determined.

· Information with regard to physical hazard classes

· Flammable liquids

Flammable liquid and vapour.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability** No decomposition if used and stored according to specifications.

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

- **Acute toxicity**

Harmful in contact with skin.

- **LD/LC50 values relevant for classification:**

reaction mass of ethylbenzene and xylene

Oral	LD50	3523 mg/kg (Rat) (EU Method B.1)
Inhalative	LC50 (4h)	6700 ppmV (Rat) (EU Method B.2)

CAS: 80-62-6 methyl methacrylate

Oral	LD50	> 5000 mg/kg (Rat)
Dermal	LD50	> 5000 mg/kg (Rat)
Inhalative	LC50 (4h)	29.8 mg/L (Rat)

CAS: 97-88-1 n-butyl methacrylate

Dermal	LD50	10181 mg/kg (Rabbit)
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- **Skin corrosion/irritation**

Causes skin irritation.

- **Serious eye damage/irritation**

Causes serious eye irritation.

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- **STOT-single exposure**

May cause respiratory irritation.

- **STOT-repeated exposure**

May cause damage to the central nervous system, the kidneys, the liver and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Aspiration hazard** Based on available data, the classification criteria are not met.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

reaction mass of ethylbenzene and xylene

LC50 (96h) (static)	2.6 mg/L (Fish) (OECD Guideline 203, Oncorhynchus mykiss) Read-across
EC50 (24h) (static)	1 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) Read-across
NOEC	0.96 mg/L (Daphnia) (US EPA 600/4-91-003, Ceriodaphnia dubia) 7d, read-across > 1.3 mg/L (Fish) (Read-across, Oncorhynchus mykiss) 56d

CAS: 80-62-6 methyl methacrylate

LC50 (96h)	> 79 mg/L (Fish) (OECD Guideline 203, Oncorhynchus mykiss)
EC50 (48h)	69 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna)

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EC50 (72h)	> 100 mg/L (Algae) (OECD Guideline 201, Selenastrum capricornutum)
NOEC (21d)	37 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna)
NOEC (dynamic)	9.4 mg/L (Fish) (OECD Guideline 210, Danio rerio)
	35d
NOEC (72h)	> 100 mg/L (Algae) (OECD Guideline 201, Selenastrum capricornutum)

CAS: 97-88-1 n-butyl methacrylate

LC50 (96h) (dynamic)	11 mg/L (Fish) (OECD Guideline 203, Pimephales promelas) measured
EC50 (48h) (static)	25.4 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) nominal
EC50 (72h) (static)	31.2 mg/L (Algae) (OECD Guideline 201, Pseudokirchneriella subcapitata)
NOEC (21d)	1.1 mg/L (Daphnia) (OECD Guideline 211, Daphnia magna)
NOEC (28d)	100 mg/L (Bacteria) (OECD Guideline 301 C)

· 12.2 Persistence and degradability

	reaction mass of ethylbenzene and xylene	98% (28d, OECD Guideline 301 F)
80-62-6	methyl methacrylate	94 % (14 d, OECD Guideline 301 C)
97-88-1	n-butyl methacrylate	88 % (28d, OECD Guideline 301 C)

· 12.3 Bioaccumulative potential

97-88-1	n-butyl methacrylate	70 BCF (calculation)
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· 12.4 Mobility in soil

	reaction mass of ethylbenzene and xylene	2,73 log Koc (Read-across)
80-62-6	methyl methacrylate	0,961 log Koc (20°C, QSAR)

· 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· **Recommendation:** Must be specially treated adhering to official regulations.

· Uncleaned packaging

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number	
· ADR/RID/ADN, IMDG, IATA	UN1307
· 14.2 UN proper shipping name	
· ADR/RID/ADN	1307 XYLENES
· IMDG, IATA	XYLENES

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<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR/RID/ADN, IMDG, IATA 	
	
<ul style="list-style-type: none"> · Class · Label 	<ul style="list-style-type: none"> 3 Flammable liquids. 3
<ul style="list-style-type: none"> · 14.4 Packing group · ADR/RID/ADN, IMDG, IATA 	
<ul style="list-style-type: none"> · 14.5 Environmental hazards: 	
<ul style="list-style-type: none"> Not applicable. 	
<ul style="list-style-type: none"> · 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category 	
<ul style="list-style-type: none"> Warning: Flammable liquids. 30 F-E,S-D A 	
<ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments 	
<ul style="list-style-type: none"> Not applicable. 	
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · ADR/RID/ADN · Tunnel restriction code 	
<ul style="list-style-type: none"> D/E 	
<ul style="list-style-type: none"> · UN "Model Regulation": 	
<ul style="list-style-type: none"> UN 1307 XYLENES, 3, III 	

SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category** P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5000 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50000 t

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

* SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.

· **Date of previous version:** 14.04.2023

· **Version number of previous version:** 2.00

· **Abbreviations and acronyms:**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
 MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships
 IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 UN: United Nations (also UNO: United Nations Organization)
 NOEC: No Observed Effect Concentration
 OECD: Organisation for Economic Co-operation and Development
 ASTM: American Society for Testing and Materials
 WAF: Water Accommodated Fraction
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 2: Flammable liquids – Category 2
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Skin Sens. 1: Skin sensitisation – Category 1
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 Asp. Tox. 1: Aspiration hazard – Category 1

· * **Data compared to the previous version altered.**