



SAFETY DATA SHEET

Mounting Medium Pertex®

Histolab

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 06.12.2005

Revision date 05.11.2015

1.1. Product identifier

Product name Mounting Medium Pertex® Histolab

Article no. 00801, 00811, 00814, 00822, 00825, 00840

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

Relevant identified uses PC21 Laboratory chemicals

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name Histolab Products AB

Office address Södra Långebergsgatan 36

Postal address Södra Långebergsgatan 36

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City Västra Frölunda

Country Sweden

Tel 0046 31 7093030

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E-mail mail@histolab.se

Website http://www.histolab.se

Enterprise no. 556098-6811

Contact person Malin Häger

1.4. Emergency telephone number

Emergency telephone Office hours:0046 31 709 30 30

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to Flam. Liq. 3;H226;

Regulation (EC) No 1272/2008 Acute tox. 4;H312;

[CLP/GHS] Skin Irrit. 2;H315;

Acute tox. 4;H332;

STOT RE2;H373;

2.2. Label elements

Hazard Pictograms (CLP)



Signal word	Warning
Hazard statements	H226 Flammable liquid and vapour. H312 Harmful in contact with skin. H315 Causes skin irritation. H332 Harmful if inhaled. H373 May cause damage to organs (hörselorgan) through prolonged or repeated exposure
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. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P332+P313 If skin irritation occurs: Get medical advice / attention. P370+P378 In case of fire: Use koldioxid, pulver eller skum for extinction.

2.3. Other hazards

Health effect	Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Xylene	CAS no.: 1330-20-7 EC no.: 215-535-7 Index no.: 601-022-00-9 Synonyms: Xylene, mixture of isomers	Flam. Liq. 3; H226 Acute tox. 4; H332 Acute tox. 4; H312 Skin Irrit. 2; H315 Note : C	30 - 65 %
Ethylbenzene	CAS no.: 100-41-4 EC no.: 202-849-4 Index no.: 601-023-00-4 Synonyms: Ethylbenzene	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE2; H373 Asp. tox 1; H304	0 - 20 %

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move into fresh air and keep at rest. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Get medical attention if any discomfort continues.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Use tempered water. To hospital or eye specialist.
Ingestion	Drink plenty of water. Do not give victim anything to drink if he is unconscious. Do not induce vomiting.

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

Acute symptoms and effects	Inhalation: headache , nausea , lightheadedness etc. At high concentrations/in severe cases: unconsciousness . Ingestion: may cause similar symptoms as on inhalation. Skin contact: Acts as a defatting agent on skin. Prolonged or repeated exposure may lead to the
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substance being absorbed through the skin.
 Skin contact: Causes skin irritation.
 Eye contact: : Irritating to the eyes.

Delayed symptoms and effects Same as the acute symptoms.

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

Other Information Data lacking.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Improper extinguishing media Data missing.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards Solvent vapours may form explosive mixtures with air.

5.3. Advice for firefighters

Fire fighting procedures Use supplied air respirator if product is involved in a fire. Containers close to fire should be removed or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures In case of inadequate ventilation, use respiratory protection. Do not breathe vapour. Wear protective gloves and, in case of splashes, goggles/face shield too. Wear protective clothing as described in Section 8 of this safety data sheet.

Take precautionary measures against static discharges. Do not smoke, use open fire or other sources of ignition. Stop leak if possible without risk. Beware of the ignition and explosion danger.

6.2. Environmental precautions

Environmental precautionary measures Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.

6.3. Methods and material for containment and cleaning up

Cleaning method Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Flush area with water. For waste disposal, see section 13.

6.4. Reference to other sections

Other instructions See section 7. See section 8. See section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling See section 8 for appropriate protective equipment. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Mechanical ventilation or local exhaust ventilation is required. Eye wash facilities and emergency shower must be available when handling this product. Static electricity and formation of sparks must be prevented. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Risk of vapour concentration on the floor and in low-lying areas.

7.2. Conditions for safe storage, including any incompatibilities

Storage Store in tightly closed original container in a well-ventilated place. Protect from heat and direct sunlight. Large amounts and storages should be stored in accordance with national regulation on storage of flammable liquids. Keep away from sources of ignition - No smoking.

Conditions for safe storage

Technical measures and storage conditions Large amounts and storages should be stored in accordance with national regulation on storage of flammable liquids.

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Xylene	CAS no.: 1330-20-7	8-hour TWA: 50 ppm	2007
	EC no.: 215-535-7	8-hour TWA: 221 mg/m ³	
	Index no.: 601-022-00-9	15 min.: 100 ppm	
	Synonyms: Xylene, mixture of isomers	15 min.: 442 mg/m ³ Sk	
Ethylbenzene	CAS no.: 100-41-4	8-hour TWA: 200 ppm	2014
	EC no.: 202-849-4	DzU 2014	
	Index no.: 601-023-00-4	8-hour TWA: 441 mg/m ³	
	Synonyms: Ethylbenzene	15 min.: 125 ppm 15 min.: 400 mg/m ³ DzU 2014	

DNEL / PNEC from substances

Substance	Xylene
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 77 mg/m ³
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Systemic effect Value: 238 mg/m ³
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Local effect Value: 289 mg/m ³
DNEL	Group: Worker Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 180 mg/kg body weight/24h
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect

DNEL	Value: 14,8 mg/m ³ Group: Consumer Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 108 mg/kg body weight/24h
DNEL	Group: Consumer Exposure route: Oral Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 16 mg/kg body weight/24h
PNEC	Exposure route: Soil Value: 2,31 mg/kg
PNEC	Exposure route: Saltwater sediments Value: 12,46 mg/kg
PNEC	Exposure route: Freshwater sediments Value: 12,46 mg/kg
PNEC	Exposure route: Saltwater Value: 0,327 mg/L
PNEC	Exposure route: Freshwater Value: 0,327 mg/L
Substance	Ethylbenzene
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 77 mg/m ³
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Local effect Value: 293 mg/m ³
DNEL	Group: Worker Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 180 mg/kg body weight/24h
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 15 mg/m ³
DNEL	Group: Consumer Exposure route: Oral Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 1,6 mg/kg body weight/24h
PNEC	Exposure route: Freshwater Value: 0,1 mg/L
PNEC	Exposure route: Saltwater Value: 0,01 mg/L
PNEC	Exposure route: Freshwater sediments Value: 13,7 mg/kg
PNEC	Exposure route: Saltwater sediments Value: 1,37 mg/kg

PNEC

Exposure route: Soil**Value:** 2,68 mg/kg

8.2. Exposure controls

Limitation of exposure on workplace

Well-ventilated area. Work in fume cupboard. Use engineering controls to reduce air contamination to permissible exposure level. Eye wash and shower facilities must be available when handling this product.

Safety signs



Respiratory protection

Respiratory protection

In case of inadequate ventilation: Respiratory protection according to European Standard EN 149. Respiratory protection must be used if air contamination exceeds acceptable level.

Hand protection

Hand protection

Wear protective gloves.

Use protective gloves in accordance with standard EN 374.

Suitable materials

Protection > 8h: Polyvinyl alcohol (PVA). Viton rubber (fluor rubber). Multi-layer material (e.g. 4H, Saranex).

Eye / face protection

Eye protection

Goggles/face shield are recommended. Eyewash bottle with clean water.

Skin protection

Skin protection (except hands)

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene / Environmental

Specific hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Colourless liquid. Viscous.
Colour	Colourless.
Odour	Aromatic. Sweetish.
Odour limit	Value: 20-40 ppm
Comments, pH (as supplied)	Data lacking.
Comments, pH (aqueous solution)	Data lacking.
Comments, Melting point / melting range	Data lacking.
Boiling point / boiling range	Value: 137-143 °C
Flash point	Value: > 23 °C
Comments, Evaporation rate	Data lacking.
Lower explosion limit with unit of measurement	1 vol%
Upper explosion limit with units of measurement	8 vol%
Vapour pressure	Value: ~ 1 kPa Test temperature: = 20 °C
Comments, Vapour density	No data recorded.
Specific gravity	Value: 943 kg/m ³ Test temperature: 21 °C

Solubility in water	175 mg/L
Comments, Partition coefficient: n-octanol / water	Data lacking.
Spontaneous combustability	Value: > 500 °C
Comments, Decomposition temperature	Data lacking.
Viscosity	Value: ~ 650 cP

9.2. Other information

Other physical and chemical properties

Comments	Data lacking.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	May react with: Halogens. Strong oxidizing compounds.
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10.4. Conditions to avoid

Conditions to avoid	Avoid exposure to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.
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10.5. Incompatible materials

Materials to avoid	Avoid contact with oxidising agents. May attack some plastics, rubber and coatings. Strong oxidising substances. Strong acids. Hydrocarbons - halogenated.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data for substances

Substance	Xylene
LD50 oral	Value: > 2000 mg/kg Animal test species: Rat
Other toxicological information for the substance	ATE (Dermal) 1100 mg/kg ATE (Inhalation) 4500 ppmV (gas) ATE (Inhalation) 11,0 mg/l (vapours) ATE (Inhalation) 1,50 mg/l (dust/mist)
CMR effects	Carcinogenicity: This substance has no evidence of carcinogenic properties.
Substance	Ethylbenzene
CMR effects	Carcinogenicity: IARC Int. Agency for Cancer Research. Group 2B. Possibly carcinogenic to humans.

Other information regarding health hazards

General	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. May cause liver and/or renal damage. The substance is absorbed through: gastrointestinal tract , lungs , skin .
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Potential acute effects

Inhalation	Harmful by inhalation. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Vapour may irritate respiratory
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	system or lungs.
Skin contact	Irritating and degreasing. Prolonged or frequent contact may cause redness, itching, eczema and skin cracking.
Eye contact	Spray and vapour in the eyes may cause irritation and smarting. Risk of corneal damage.
Ingestion	May cause stomach pain or vomiting. May cause symptoms similar to those listed for inhalation.

Delayed effects / repeated exposure

Chronic effects	Prolonged or frequent inhalation of vapours in high concentrations may cause permanent damage to the nervous system, including the brain. May cause damage to the kidneys.
STOT-single exposure	Data lacking.
STOT-repeated exposure	Data lacking.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	Data lacking.
Mutagenicity	Data lacking.
Reproductive toxicity	Data lacking.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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Toxicological data for substances

Substance	Xylene
Acute aquatic, fish	Value: = 2-11 mg/L Method of testing: LC50 Species: Roccus saxatilis Duration: 96h
Acute aquatic, algae	Value: = 3-5 mg/L Method of testing: IC50 Species: Selenastrum sp. Duration: 72h
Acute aquatic, Daphnia	Value: = 1-5 mg/L Method of testing: EC50 Species: Daphnia magna Duration: 48h
Mobility, description	Mobility, description: The product is immiscible with water and will spread on the water surface.
Persistence and degradability	The product is readily biodegradable.
Bioaccumulation	Will not bio-accumulate.
Distribution coefficient	Value: 2,77-3,15
Result of PBT assessment for the substance	Not Classified as PBT/vPvB by current EU criteria.
Other negative effects	Data lacking.
Substance	Ethylbenzene
Acute aquatic, fish	Value: = 12,1 mg/L Method of testing: LC50 Duration: 96h
Acute aquatic, algae	Value: = 438 mg/L Method of testing: IC50 Duration: 72h
Acute aquatic, Daphnia	Value: = 1,8-2,4 mg/L

	Method of testing: EC50
	Species: D. Magna
	Duration: 48h
Mobility, description	Mobility, description: The product is insoluble in water.
Persistence and degradability	The product is readily biodegradable.
Distribution coefficient	Value: 3,5
Result of PBT assessment for the substance	Not Classified as PBT/vPvB by current EU criteria.

12.2. Persistence and degradability

Persistence and degradability	Data lacking.
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12.3. Bioaccumulative potential

Bioaccumulative potential	Data lacking.
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12.4. Mobility in soil

Mobility	Data lacking.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	Data lacking.
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12.6. Other adverse effects

Other adverse effects / Remarks	Data lacking.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Confirm disposal procedures with environmental engineer and local regulations.
Relevant waste regulation	SFS 2011:927
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 160506 laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals EWC: 180106 chemicals consisting of or containing dangerous substances EWC: 180205 chemicals consisting of or containing dangerous substances EWC: 20 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

SECTION 14: Transport information

14.1. UN number

ADR / RID / ADN	1866
RID	1866
IMDG	1866
ICAO/IATA	1866

14.2. UN proper shipping name

ADR	RESIN SOLUTION
RID	RESIN SOLUTION
IMDG	RESIN SOLUTION
ICAO/IATA	RESIN SOLUTION

14.3. Transport hazard class(es)

ADR / RID / ADN	3
RID	3

IMDG	3
ICAO/IATA	3

14.4. Packing group

ADR	III
RID	III
IMDG	III
ICAO/IATA	III

14.5. Environmental hazards

Comments	Not relevant.
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14.6. Special precautions for user

EmS	F-E, S-E
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product name	-
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Additional information.

Additional information.	Not relevant.
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ADR / RID - Other information

Hazard no.	30
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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Legislation and regulations	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Commission Regulation (EU) No 453/2010, Annex I. Council Directive (EC) 1272/2008. Avfallsförordningen (2011:927).
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15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Supplier's notes	Replaces safety data sheet with revision date: 14.04.2015
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Flam. Liq. 3; H226; Acute tox. 4; H312; Skin Irrit. 2; H315; Acute tox. 4; H332; STOT RE2; H373;
List of relevant R-phrases (under headings 2 and 3).	R20/21 Harmful by inhalation and in contact with skin. R38 Irritating to skin. R10 Flammable.
List of relevant H-phrases (Section 2 and 3).	H373 May cause damage to organs through prolonged or repeated exposure H304 May be fatal if swallowed and enters airways. H226 Flammable liquid and vapour. H315 Causes skin irritation. H332 Harmful if inhaled. H312 Harmful in contact with skin. H225 Highly flammable liquid and vapour.

Important data sources used to construct the safety data sheet	C&L Inventory database. Council Directive (EC) 1272/2008. Information from the supplier.
Information which has been added, deleted or revised	Change to Sections: 2, 3, 4, 6, 5, 6, 7, 10, 11, 12, 15
Version	4
Responsible for safety data sheet	Histolab Products AB
Prepared by	Malin Häger