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## MATERIAL SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product Name: Pertex Mounting Medium  
Product Code: REA222  
Manufacturer: Histolab  
Brand: Solmedia Ltd

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

Identified uses: PC21 Laboratory chemicals

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

- Name of Supplier: Solmedia Ltd.  
- Address of Supplier: Unit 2, Vernon Drive  
Battlefield Enterprise Park  
Shrewsbury  
SY1 3TF  
UK  
- Telephone: 0844 80 80 900  
- Email: labsupplies@solmedialtd.com

#### 1.4 Emergency telephone number

Emergency Phone # +44 (0)844 80 80 900

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### SECTION 2: Hazards identification

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

#### 2.1 Classification of the substance or mixture

H226: Flam. Liq. 3  
H312: Acute tox. 4  
H315: Skin Irrit. 2  
H332: Acute tox. 4  
H373: STOT RE2

#### 2.2 Label elements



**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 Carbon Dioxide, powder or foam for extinction.

**2.3 Other hazards**

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****3.1 Substances****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	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE2; H373	0 - 20 %

	Synonyms: Ethylbenzene	Asp. tox 1; H304	
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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Inhalation:</b>	Move into fresh air and keep at rest. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.
<b>Skin Contact:</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Get medical attention if any discomfort continues.
<b>Eye Contact:</b>	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.
<b>Ingestion:</b>	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

<b>Inhalation:</b>	Headache, nausea, light-headedness etc. At high concentrations/in severe cases: unconsciousness.
<b>Ingestion:</b>	May cause similar symptoms as on inhalation.
<b>Skin contact:</b>	Causes skin irritation. Acts as a defatting agent on skin. Prolonged or repeated exposure may lead to the substance being absorbed through the skin.
<b>Eye Contact:</b>	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

Data lacking

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## 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**

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

## **5.4 Further information**

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# **SECTION 6: Accidental release measures**

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

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**

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 materials for containment and cleaning up**

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**

See section 7. See section 8. See section 13.

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# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe 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

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

## 7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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

**DNEL / PNEC from substances****Xylene**

	Group	Exposure route	Exposure frequency	Type of effect	Value
DNEL	Worker	Inhalation	Long term (repeated)	Systemic effect	77 mg/m <sup>3</sup>
	Worker	Inhalation	Short term (acute)	Systemic effect	238 mg/m <sup>3</sup>
	Worker	Inhalation	Short term (acute)	Local effect	289 mg/m <sup>3</sup>
	Worker	Dermal	Long term (repeated)	Systemic effect	180 mg/kg body weight/24h
	Consumer	Inhalation	Long term (repeated)	Systemic effect	14,8 mg/m <sup>3</sup>
	Consumer	Dermal	Long term (repeated)	Systemic effect	108 mg/kg body weight/24h
	Consumer	Oral	Long term (Repeated)	Systemic effect	16 mg/kg body weight/24h
PNEC		Soil			2,31 mg/kg
		Saltwater sediments			12,46 mg/kg
		Freshwater sediments			12,46 mg/kg
		Saltwater			0,327 mg/L
		Freshwater			0,327 mg/L

**Ethylbenzene**

	Group	Exposure route	Exposure frequency	Type of effect	Value
DNEL	Worker	Inhalation	Long term (repeated)	Systemic effect	77 mg/m <sup>3</sup>
	Worker	Inhalation	Short term (acute)	Local effect	293 mg/m <sup>3</sup>
	Worker	Dermal	Long term (repeated)	Systemic effect	180 mg/kg body weight/24h
	Consumer	Inhalation	Long term (repeated)	Systemic effect	15 mg/m <sup>3</sup>
	Consumer	Oral	Long term (Repeated)	Systemic effect	16 mg/kg body weight/24h
PNEC		Freshwater			0,1 mg/L
		Saltwater			0,01 mg/L
		Saltwater sediments			1,37 mg/kg
		Freshwater sediments			13,7 mg/kg
		Soil			2,68 mg/kg

**8.2 Exposure controls**

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.



#### 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

Wear protective gloves.

Use protective gloves in accordance with standard EN 374.

Suitable materials Protection > 8h: Polyvinyl alcohol (PVA). Viton rubber (fluor rubber). Multilayer material (e.g. 4H, Saranex).

#### Eye / face protection

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

#### Skin protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene / Environmental

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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Colourless liquid. Viscous.
<b>Colour</b>	Colourless.
<b>Odour Aromatic.</b>	Sweetish.
<b>Odour limit</b>	Value: 20-40 ppm
<b>Comments, pH (as supplied)</b>	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<sup>3</sup>

Test temperature: 21 °C

**Solubility in water**

175 mg/L

**Comments, Partition coefficient: n-octanol/water**

Data lacking.

**Spontaneous combustibility**

Value: > 500 °C

**Comments, Decomposition temperature**

Data lacking.

**Viscosity**

Value: ~ 650 cP

## 9.2 Other safety information

Data lacking

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

There are no known reactivity hazards associated with this product.



## 10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

## 10.3 Possibility of hazardous reactions

May react with: Halogens. Strong oxidizing compounds.

## 10.4 Conditions to avoid

Avoid exposure to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.

## 10.5 Incompatible materials

Avoid contact with oxidising agents. May attack some plastics, rubber and coatings. Strong oxidising substances. Strong acids. Hydrocarbons - halogenated.

## 10.6 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

<b>Substance</b>	Xylene
<b>Acute toxicity</b>	Type of toxicity: Acute
	Effect tested: LD50
	Route of exposure: Oral
	Value: > 2000 mg/kg
	Animal test species: Rat

#### Other information regarding health hazards

<b>General</b>	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.
<b>Inhalation</b>	Harmful by inhalation. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Vapour may irritate respiratory system or lungs.
<b>Skin contact</b>	Irritating and degreasing. Prolonged or frequent contact may cause redness, itching, eczema and skin cracking.

<b>Eye contact</b>	Spray and vapour in the eyes may cause irritation and smarting. Risk of corneal damage.
<b>Ingestion</b>	May cause stomach pain or vomiting. May cause symptoms similar to those listed for inhalation.
<b>Chronic effects</b>	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.
<b>Mutagenicity</b>	Data lacking
<b>Carcinogenicity, other information</b>	Data lacking
<b>Reproductive toxicity</b>	Data lacking
<b>STOT-single exposure</b>	Data lacking
<b>STOT-repeated exposure</b>	Data lacking

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Xylene

	Value	Test Duration	Species	Method
Aquatic Toxicity, fish	2 - 11 mg/L	96H	Roccus saxatilis	LC50
Aquatic toxicity, algae	3 - 5 mg/L	72H	Selenastrum sp.	IC50
Aquatic toxicity, crustacean	1 - 5 mg/L	48H	Daphnia magna	EC50

#### Ethylbenzene

	Value	Test Duration	Species	Method
Aquatic Toxicity, fish	12,1 mg/L	96H		LC50
Aquatic toxicity, algae	438 mg/L	72H		IC50
Aquatic toxicity, crustacean	1,8 - 2,4 mg/L	48H	Daphnia magna	EC50

<b>Ecotoxicity</b>	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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## 12.2 Persistence and degradability

Data lacking

## 12.3 Bioaccumulative potential

Data lacking

## 12.4 Mobility in soil

Data lacking

## 12.5 Results of PBT and vPvB assessment

Data lacking

### Substance

Xylene

### PBT assessment results

Not classified as PBT/vPvB by current EU criteria.

### Substance

Ethylbenzene

### PBT assessment results

Not classified as PBT/vPvB by current EU criteria.

## 12.6 Other adverse effects

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

1866

### 14.2 UN proper shipping name

RESIN SOLUTION

### 14.3 Transport hazard class(es)

3

### 14.4 Packaging group

III

### 14.5 Environmental hazards

Not relevant

### 14.6 Special precautions for user

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

#### Product name

#### Additional information

Not relevant

#### ADR/RID Other information

Hazard No 30

#### IMDG Other information

EmS F-E, S-E

## SECTION 15: Regulatory information

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

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). Water hazard class (WGK): strongly hazardous to water (WGK 3)

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## SECTION 16: Other information

### List of relevant H-phrases (Section 2 and 3)

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.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure

### 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

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.