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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:** DPX Mountant DBP Free  
**Product code:** REA21  
**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](mailto:labsupplies@solmedialtd.com)

#### 1.4 Emergency telephone number

**Emergency Phone:** +44 (0)844 80 80 900

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Flam. Liq. 3: H226  
Acute Tox. 4: H312  
Skin Irrit. 2: H315  
Eye Irrit. 2: H319  
Acute Tox. 4: H332  
STOT SE 3; H335  
STOT SE 3; H336  
STOT SE 2, H373

#### 2.2 Label elements

**Product Name** DPX (Phthalate Free) Mounting Medium  
**Hazard statements:** H226: Flammable liquid and vapour.  
H312: Harmful in contact with skin.  
H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness

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

**Signal words:** Warning

**Hazard pictograms:** GHS02: Flame

GHS07: Exclamation mark

GHS08: Health Hazard



**Precautionary statements:**

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

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

P302 +P352 IF ON SKIN: Wash with plenty of soap and water.

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

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312: Call a POISON CENTRE or doctor if you feel unwell.

### 2.3 Other hazards

None known.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

According to Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the Substance	%W/W	CAS No.	EC. No	REACH Registration No	Hazard classification
Reaction mass of (Ortho-xylene, meta-xylene, para-xylene & ethylbenzene)	<70%	1330-20-7	215-535-7	01-2119488216-32-xxxx	Flam. Liq. 3: H226 Asp. Tox. 1: H304 Acute Tox. 4: H312 Skin Irrit. 2: H315 Eye Irrit. 2: H319 Acute Tox. 4: H332 STOT SE 3; H335 STOT SE 3; H336 STOT SE 2, H373

Note: Reaction mass of (ortho-xylene, meta-xylene, para-xylene & ethylbenzene) Contains:

Chemical identity of the Substance	%W/W	CAS No.	EC. No	REACH Registration No	Hazard classification
Ethylbenzene	<25	100-41-4	202-849-4	Not yet assigned in the supply chain	Flam. Liq. 2: H225 Asp. Tox. 1: H304 Acute Tox. 4: H332 STOT SE 2, H373 Aquatic Chronic 3; H412

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Self-protection:</b>	Wear an appropriate mask or self-contained breathing apparatus if fumes are still present. Avoid all contact.
<b>Skin contact:</b>	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor. Take off all contaminated clothing and wash it before reuse. Wash skin with water. If skin irritation occurs: Get medical advice.
<b>Eye contact:</b>	Bathe the eye with running water for 15 minutes. Consult a doctor. Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes.
<b>Ingestion:</b>	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

<b>Skin contact:</b>	Harmful in contact with skin. Causes skin irritation
<b>Eye contact:</b>	Causes serious eye irritation.
<b>Ingestion:</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Inhalation:</b>	Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.
<b>Delayed / immediate effects:</b>	Immediate effects can be expected after short-term exposure.

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

Xylene(s):	IF SWALLOWED: Do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.
Ethylbenzene:	Inhalation of high concentrations of this material may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Appropriate foam. Carbon dioxide. Dry chemical powder.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

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

Flammable. In combustion emits toxic fumes.

May explode when heated or when exposed to flames or sparks. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers.

**Hazardous decomposition products:** Carbon oxides (CO, CO<sub>2</sub>)

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Control run-off water by containing and keeping it out of sewers and watercourses. Cool

containers exposed to flames with water until well after the fire is out. Move containers from fire area if it can be done without risk. If risk of water pollution occurs, notify appropriate authorities.

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

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

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

### **6.2 Environmental precautions**

Do not discharge into drains or rivers. Contain the spillage using bunding.

### **6.3 Methods and materials for containment and cleaning up**

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks. Ventilate and wash the spill site after disposal of material.

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

Refer to section 8 of SDS.

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

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

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.  
Do not handle in a confined space. Avoid the formation or spread of mists in the air.  
Smoking is forbidden. Use non-sparking tools.

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

Store in cool, well-ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build-up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

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

Refer to Section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Substance	CAS No,	LTEL (8hr TWA ppm)	LTEL (8-hour TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Xylene, o-, m-, p- or mixed isomers	1330-20-7	50	220	100	441	WEL, Sk
Methanol Ethylbenzene	67-56-1	50	221	100	442	IOELV, Sk OEL (Ireland) OEL (Malta)
	100-41-4	100	441	125	552	WEL, Sk

Source:

WEL: Workplace Exposure Limit (UK HSE EH40)

IOELV: Indicative Occupational Exposure Limit Value

Ireland: Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)

Malta: Protection of the health and safety of workers from the risks related to chemical agents at work (S.L.242.24)

Note: Sk – Can be absorbed through skin.

#### 8.1.2 Biological limit value

Substance	CAS No,	Biological Limit Value	Biological Guidance Value	Note
Xylene, o-, m-, p- or mixed isomers	1330-20-7	650 mmol methyl hippuric acid/ mol Creatinine	Post shift	Sk, BMGV

Source:

BMGV: Biological monitoring guidance value (UK HSE EH40)

Note: Sk – Can be absorbed through skin

#### 8.1.3 PNECs and DNELs

Mixed Xylene (CAS 1330-20-7) comprises individual xylene isomers (m-xylene, o-xylene, p-xylene) and <10% Ethylbenzene. A comparison of toxicological data available for xylenes (including mixed xylenes and the individual isomers)

demonstrates that the effects seen are generally similar and that the effect levels are of the same order of magnitude. The presence of up to 10% Ethylbenzene is not expected to significantly alter this hazard profile, with overall effects on human health influenced primarily by xylenes.

Xylene Derived No Effect Level	Oral	Inhalation	Dermal
Worker – Long Term – Systemic Effects	-	221 mg/m <sup>3</sup>	212 mg/kg bw/day
Worker – Short Term – Systemic Effects	-	442 mg/m <sup>3</sup>	-
Worker – Long Term – Local Effects	-	221 mg/m <sup>3</sup>	-
Worker – Short Term – Local Effects	-	442 mg/m <sup>3</sup>	-
Consumer – Long Term – Systemic Effects	12.5 mg/kg bw/day	65.3 mg/m <sup>3</sup>	125 mg/kg bw/day
Consumer – Long Term – Systemic Effects	-	260 mg/m <sup>3</sup>	-
Consumer – Long Term – Local Effects	-	65.3 mg/m <sup>3</sup>	-
Consumer – Short Term – Local Effects	-	260 mg/m <sup>3</sup>	-

Xylene Predicted No Effect Concentration	Value
Aquatic Compartment	PNEC Aqua (marine water) 0.327mg/l PNEC Aqua (freshwater) 0.327 mg/l PNEC freshwater sediment 12.46 mg/kg dw PNEC marine sediment 12.46 mg/kg dw
Soil	PNEC 2.31 Soil mg/kg dw
STP (Sewage Treatment Plant)	PNEC STP 6.58 mg/l

## 8.2 Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area, or use appropriate containment. Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines. Good hygiene practices and housekeeping measures.

Wear appropriate personal protective equipment, avoid direct contact. Wash hands before breaks and after work. Keep work clothes separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke at the work place.

<b>Respiratory protection:</b>	Work in well ventilated zones or use proper respiratory protection. In case of insufficient ventilation, wear suitable respiratory equipment. Select a filter suitable for organic gases and vapours. Respiratory protective equipment should conform to the appropriate EN standard.
<b>Hand protection:</b>	Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Refer to information provided by the glove provider for breakthrough times.
<b>Eye protection:</b>	Wear goggles giving complete protection to eyes to protect against liquid splashes (EN166).
<b>Skin protection:</b>	Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Environmental:</b>	Avoid release into the environment.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Colourless liquid
<b>Odour</b>	Characteristic / Aromatic
<b>Odour threshold</b>	Not determined
<b>pH</b>	Not determined
<b>Melting point/freezing point</b>	Not determined
<b>Initial boiling point &amp; boiling range</b>	132°C
<b>Flash point</b>	27°C [Closed cup]
<b>Evaporation rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not applicable – liquid
<b>Upper/lower flammability or explosive</b>	Not determined limits
<b>Vapour pressure</b>	Not determined
<b>Vapour density</b>	Not determined
<b>Relative density</b>	0.925g/cm <sup>3</sup> @ 20°C
<b>Solubility(ies)</b>	Immiscible with water
<b>Partition coefficient: n-octanol/water</b>	Not determined

**Auto-ignition temperature**

Not determined

**Decomposition Temperature**

Not determined

**Viscosity**

0.55 mPas (Cone &amp; Plate)

**Explosive properties**

Not explosive

**Oxidising properties**

Not oxidising

**9.2 Other safety information**

None known

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

Stable under normal conditions.

**10.2 Chemical stability**

Stable under normal conditions. Stable at room temperature.

**10.3 Possibility of hazardous reactions**

Flammable liquid and vapour. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.  
May react with: Strong oxidising agents.

**10.4 Conditions to avoid**

Heat. Hot surfaces. Sparks. Open flames. Ignition sources. No smoking.

**10.5 Incompatible materials**

Strong oxidising agents, acids, alkalis.

**10.6 Hazardous decomposition products**

May decompose in a fire giving off toxic fumes. Oxides of carbon, Ethyl methacrylate, n-Butylmethacrylate and Methacrylic acid.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Symptoms / routes of exposure****Skin contact:**

Acute Tox. 4: Harmful in contact with skin

Acute Toxicity Estimate Mixture Calculation: LD50 1767 mg/kg bw/day

Skin Irrit. 2: Causes skin irritation

**Reaction mass of (ortho-xylene, meta-xylene, para-xylene and ethylbenzene)**

Skin Irrit. 2, Harmonised Classification.

Moderate irritation to rabbit skin. (1970) Test data taken from C-8 aromatics (ortho,meta and para xylene; ethylbenzene; Composition – Not defined).

**Eye contact:** Eye Irrit 2: Causes serious eye damage/irritation.

**Reaction mass of (ortho-xylene, meta-xylene, para-xylene and ethylbenzene)**

Moderate irritation to rabbit eye. (1970) Test data taken from C-8 aromatics (ortho,meta and para xylene; ethylbenzene; Composition – Not defined).

**Ingestion:** Mixture: Based on available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/kg bw/day

**Inhalation:** Acute Tox. 4: Harmful if inhaled.

Acute Toxicity Estimate Mixture Calculation: LD50 17.7 mg/kg bw/day

**Respiratory or skin sensitization**

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.

**STOS – single exposure**

STOT SE 3: May cause respiratory irritation.

STOT SE 3: May cause drowsiness or dizziness.

O, m and p-xylene

STOT SE 3: May cause respiratory irritation.

Human observations, 400-600 ppm for 15-30 minutes – Irritating to respiratory system. (1986).

Xylene

STOT SE 3: May cause drowsiness or dizziness.

Human volunteers, 100 ppm for 4 hours – Deterioration of performance in tests of simple reaction time and choice reaction time (1990).

**STOT – repeated exposure**

STOT RE 2: May cause damage to organs through prolonged or repeated exposure.

**Reaction mass of (ortho-xylene, meta-xylene, para-xylene and ethylbenzene)**

Human observations, 21 ppm (TWA) 7 year(s) – Increase in the reporting of symptoms including increased anxiety, forgetfulness and inability to concentrate (1993). On basis of test data – mixed xylenes (~50% m-xylene, ~30% p-xylene, ~ 15% o-xylene).

Inhalation (rat) 8 hour(s) Exposure time per day, 7 days per week for 6 week(s) then 5 days per week for 6 months – Increased relative liver weight (1990). On basis of test data – Mixed xylene (~50% m-xylene, ~30% p-xylene, ~ 15% o-xylene).

Oral (rat) -Increased kidney weight (1988). Equivalent or similar to OECD 408. On basis of test data - Mixed xylene (~50% m-xylene, ~30% p-xylene, ~ 15% o-xylene).

Ethylbenzene Male rat, Inhalation (6 days per week for 13 week(s)) – Hearing deterioration NOAEC 200ppm (2007).

**Aspiration hazard**

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

**SECTION 12: Ecological information****12.1 Toxicity**

Non-toxic to aquatic life. Based on available data, the classification criteria are not met. Estimated (96 Hour) LC50 (Fish) > 100 mg/l.

Xylene NOEC (56 days) > 1.3 mg/l (Fish) (1977)

Ethylbenzene NOEC (7 days) 0.96 mg/l (Ceriodaphnia dubia) (1998)

**12.2 Persistence and degradability**

Xylene isomers & ethylbenzene: Readily biodegradable, non-persistent.

**12.3 Bioaccumulative potential**

This product has low bioaccumulation potential.

**12.4 Mobility in soil**

No data for this mixture as a whole. The product is predicted to have a low mobility in soil. Insoluble in water.

**12.5 Results of PBT and vPvB assessment**

This product is not identified as a PBT/vPvB substance.

**12.6 Other adverse effects**

None Known.

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Dispose of this material and its container as hazardous waste.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection points

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal. Avoid release into the environment.

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**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**

No

**Marine pollutant:** No**14.6 Special precautions for user**

See section 2

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

##### **Phrases used in s.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.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness

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

H412: Harmful to aquatic life with long lasting effects.

##### **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.