



## SAFETY DATA SHEET

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### Pumadur DD Gloss Coloured (Hardener Component)

Revision 3  
Revision date 16-May-2007

#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Product name** Pumadur DD Gloss Coloured (Hardener Component)  
**Company** Resdev Ltd  
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#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

##### Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Ethylbenzene	1-10%	100-41-4	202-849-4	F; R11 Xn; R20
Hexamethylene-di-isocyanate	0-0.5%	822-06-0	212-485-8	T; R23 Xi; R36/37/38 R42/43
Xylene (Xylene, o-,m-,p-or mixed isomers)	1-10%	1330-20-7	215-535-7	R10 Xn; R20/21 Xi; R38
2-methoxy-1-methylethyl acetate (1-Methoxypropylacetate)	10-20%	108-65-6	203-603-9	R10 Xi; R36
aliphatic polyisocyanate	70-80%	28182-81-2		Xi;R43

#### 3. HAZARDS IDENTIFICATION

**Main hazards** Flammable Harmful by inhalation. May cause sensitisation by skin contact.

#### 4. FIRST AID MEASURES

**Skin contact** Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.  
**Eye contact** Rinse immediately with plenty of water for 15 minutes holding the eyelids open.  
**Inhalation** Move the exposed person to fresh air. If breathing stops, provide artificial respiration.  
**Ingestion** DO NOT INDUCE VOMITING. Immediate medical attention is required. Rinse mouth thoroughly.

#### 5. FIRE FIGHTING MEASURES

**Extinguishing media** Carbon dioxide (CO2) Dry chemical. Alcohol resistant foam.  
**Fire hazards** Burning produces irritating, toxic and obnoxious fumes.  
**Protective equipment** Wear: Self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Evacuate personnel to a safe area. Wear suitable protective equipment.
<b>Environmental precautions</b>	Prevent further spillage if safe. Do not allow product to enter drains. Advise local authorities if large spills cannot be contained.
<b>Clean up methods</b>	Remove mechanically; cover the remainder with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand). After approximately one hour transfer to waste container and do not seal (evolution of CO <sub>2</sub> !). Transfer to suitable, labelled containers for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Ensure adequate ventilation of the working area. Do not eat, drink or smoke in areas where this product is used or stored.
<b>Storage</b>	Store at temperatures between 20 °C and 35 °C. Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Keep away from water.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

Ethylbenzene	WEL 8-hr limit ppm: 100 WEL 15 min limit ppm: 125	WEL 8-hr limit mg/m <sup>3</sup> : 441 WEL 15 min limit mg/m <sup>3</sup> : 552
Xylene (Xylene, o-,m-,p-or mixed isomers)	WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 100	WEL 8-hr limit mg/m <sup>3</sup> : 220 WEL 15 min limit mg/m <sup>3</sup> : 441
2-methoxy-1-methylethyl acetate (1-Methoxypropylacetate)	WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 100	WEL 8-hr limit mg/m <sup>3</sup> : 274 WEL 15 min limit mg/m <sup>3</sup> : 548

<b>Engineering measures</b>	Ensure adequate ventilation of the working area.
<b>Occupational exposure controls</b>	Keep away from food, drink and animal feedingstuffs.
<b>Respiratory protection</b>	Wear suitable respiratory equipment when necessary.
<b>Hand protection</b>	Butyl rubber gloves. Neoprene gloves. Nitrile rubber gloves.
<b>Eye protection</b>	Approved safety goggles.
<b>Protective equipment</b>	Wash all contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	Liquid.
<b>Colour</b>	Clear.
<b>Odour</b>	Characteristic.
<b>Boiling point</b>	145°C
<b>Flash point</b>	38°C
<b>Relative density</b>	1.07
<b>Water solubility</b>	insoluble.
<b>Viscosity</b>	@ 225 mPa.s at 23°C
<b>VOC (Volatile organic compounds)</b>	250 g/l

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## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Heating produces hazardous fumes.
<b>Materials to avoid</b>	Acids. Amines. Bases. Strong oxidising agents. Copper and its alloys.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	ORL RAT LD50 >2000 mg/kg. Ingestion may cause nausea and vomiting.
<b>Corrosivity</b>	May cause irritation to eyes. May cause irritation to skin. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
<b>Sensitization</b>	May cause sensitisation by skin contact.
<b>Repeated or prolonged exposure</b>	Prolonged or repeated exposure may cause irritation to skin and mucous membranes.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No data is available on this product.
<b>Degradability</b>	Not readily biodegradable.
<b>Further information</b>	The product reacts with water at the interface forming CO <sub>2</sub> and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water-soluble solvents.

## 13. DISPOSAL CONSIDERATIONS

<b>General information</b>	Dispose of as special waste in compliance with local and national regulations.
<b>Disposal of packaging</b>	Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

## 14. TRANSPORT INFORMATION

### ADR/RID

UN 1866	Packing group III
Class 3	Hazard ID 30
<b>Proper Shipping Name</b> RESIN SOLUTION	

### IMDG

UN 1866	Packing group III
Class 3	Marine pollutant .
<b>EmS Code</b> F-E S-E	

### IATA

UN 1866	Packing group III
Class 3	Subsidiary risk -
<b>Packing Instruction</b> 310 (Cargo)	<b>Maximum quantity</b> 220 L
<b>Packing Instruction</b> 309 (Passenger)	<b>Maximum quantity</b> 60 L

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## 15. REGULATORY INFORMATION

**Labelling** The product is classified in accordance with 67/548/EEC.

**Symbols** Xn - Harmful



**Risk phrases**

- R10 - Flammable.
- R20 - Harmful by inhalation.
- R43 - May cause sensitisation by skin contact.

**Safety phrases**

- S24 - Avoid contact with skin.
- S37 - Wear suitable gloves.

## 16. OTHER INFORMATION

**Text of risk phrases in Section 2**

- R10 - Flammable.
- R11 - Highly flammable.
- R20 - Harmful by inhalation.
- R20/21 - Harmful by inhalation and in contact with skin.
- R23 - Toxic by inhalation.
- R36 - Irritating to eyes.
- R36/37/38 - Irritating to eyes, respiratory system and skin.
- R38 - Irritating to skin.
- R42/43 - May cause sensitisation by inhalation and skin contact.
- R43 - May cause sensitisation by skin contact.

**Further information**

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

**Revision**

This document differs from the previous version in the following areas:

- 9 - VOC (Volatile organic compounds).

**Product Subcategory** Two-pack reactive performance coatings for specific end use such as floors. 550 g/l

**Maximum content of VOC** 250 g/l