

**D373 Part B****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name	D373 Part B
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**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC1] Adhesives, sealants;
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**1.3. Details of the supplier of the safety data sheet**

Company	Delta Adhesives Ltd
Address	Unit 39-40 Claycliffe Business Park Barugh Green Barnsley S75 1JU
Web	www.delta-adhesives.co.uk
Telephone	+44 (0)1226 381571
Fax	+44 (0)1226 381722
Email	sales@delta-adhesives.co.uk
Email address of the competent person	sales@delta-adhesives.co.uk

**1.4. Emergency telephone number**

Emergency telephone number	+44(0)12260381571
Company	Delta Adhesives Ltd (Head Office) 24 hours (Diverted out of office hours)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

2.1.2. Classification - EC 1272/2008	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; STOT SE 3: H335; Aquatic Chronic 3: H412;
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**2.2. Label elements**

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.



## 2.2. Label elements

<b>Precautionary Statement: Prevention</b>	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Response</b>	P302+P352 - IF ON SKIN: Wash with plenty of water/ . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P321 - Specific treatment (see instructions on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.
<b>Precautionary Statement: Storage</b>	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
<b>Precautionary Statement: Disposal</b>	P501 - Dispose of contents/container to

## 2.3. Other hazards

<b>Other hazards</b>	This product does not contain any substances classified as PBT or vPvB.
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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Methyl methacrylate	607-035-00-6	80-62-6	201-297-1	01-2119452498-28	0.5 - 1%	Flam. Liq. 2: H225; STOT SE 3: H335; Skin Irrit. 2: H315; Skin Sens. 1: H317;
Benzyl methacrylate		2495-37-6	219-674-4		50 - 60%	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; STOT SE 3: H335;
Styrene butadiene copolymer		9003-55-8			20 - 30%	
1,3-Diaminopropane		109-76-2	203-702-7		0 - 0.5%	Flam. Liq. 3: H226; Acute Tox. 4: H302; Acute Tox. 2: H310; Skin Corr. 1A: H314;
Isobornyl acrylate		5888-33-5	227-561-6		10 - 20%	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; STOT SE 3: H335; Aquatic Acute 1: H400; Aquatic Chronic 2: H411;
Triethylborane-1,3-diaminopropane complex		148861-07-8	604-654-3	05-2114337092-58	1 - 10%	Acute Tox. 4: H312; Skin Corr. 1A: H314; Skin Sens. 1: H317;
Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)		128-37-0	204-881-4	01-2119555270-46	0.5 - 1%	Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move the exposed person to fresh air. Remove casualty from exposure ensuring one's own safety whilst doing so. Seek medical attention if irritation or symptoms persist.
<b>Eye contact</b>	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
<b>Skin contact</b>	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Keep the affected person warm and at rest. Rinse mouth thoroughly. Drink 1 to 2 glasses of

**4.1. Description of first aid measures**

water. Seek medical attention.

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

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin. Eczema. Itching.
Ingestion	Ingestion may cause nausea and vomiting.

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

Remove the affected person from the source of contamination immediately. Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

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

Burning produces irritating, toxic and obnoxious fumes.

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Wear: Protective equipment. Self-contained breathing apparatus. Cool fire exposed containers with waterspray.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation of the working area. Wear suitable protective equipment.

**6.2. Environmental precautions**

Do not allow product to enter drains. Prevent further spillage if safe.

**6.3. Methods and material for containment and cleaning up**

Wear suitable protective clothing, gloves and eye/face protection. Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Dispose of this material and its container to hazardous or special waste collection point. Wash hands after handling the product.

**6.4. Reference to other sections**

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid contact with eyes and skin. Wear suitable protective clothing and gloves. Wear eye/face protection. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing. Do not eat, drink or smoke in areas where this product is used or stored. Wash hands after handling the product.

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

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Keep away from food, drink and animal feedingstuffs. Keep away from heat.

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

Refer to Section 1.2.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****8.1.1. Exposure Limit Values**

### 8.1.1. Exposure Limit Values

Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m <sup>3</sup> : 10
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m <sup>3</sup> : -
	WEL 8-hr limit mg/m <sup>3</sup> total inhalable dust: - WEL 8-hr limit mg/m <sup>3</sup> total respirable dust: -	WEL 15 min limit mg/m <sup>3</sup> total inhalable dust: - WEL 15 min limit mg/m <sup>3</sup> total respirable dust: -
Methyl methacrylate	WEL 8-hr limit ppm: 50	WEL 8-hr limit mg/m <sup>3</sup> : 208
	WEL 15 min limit ppm: 100	WEL 15 min limit mg/m <sup>3</sup> : 416
	WEL 8-hr limit mg/m <sup>3</sup> total inhalable dust: - WEL 8-hr limit mg/m <sup>3</sup> total respirable dust: -	WEL 15 min limit mg/m <sup>3</sup> total inhalable dust: - WEL 15 min limit mg/m <sup>3</sup> total respirable dust: -
Styrene butadiene copolymer	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m <sup>3</sup> : -
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m <sup>3</sup> : -
	WEL 8-hr limit mg/m <sup>3</sup> total inhalable dust: 4 WEL 8-hr limit mg/m <sup>3</sup> total respirable dust: 10	WEL 15 min limit mg/m <sup>3</sup> total inhalable dust: - WEL 15 min limit mg/m <sup>3</sup> total respirable dust: -

DNEL: Derived no-effect level.

### Exposure Pattern - Workers

Butylated Hydroxytoluene	Long-term - inhalation - Local effects	5.8 mg/m <sup>3</sup>	
	Long-term - dermal - Systemic effects	8.3 mg/kg	
Isobornyl acrylate	Long-term - dermal - Systemic effects	1.39 mg/kg	
Methyl methacrylate	Acute dermal - Local effects	1500 mg/m <sup>3</sup>	
	Long-term - inhalation - Local effects	210 mg/m <sup>3</sup>	Long-term - dermal - Local effects 13.67 mg/kg

### Exposure Pattern - General population

Butylated Hydroxytoluene	Long-term - inhalation - Systemic effects	1.74 mg/m <sup>3</sup>	
	Long-term - dermal - Systemic effects	5 mg/kg	
Isobornyl acrylate	Acute oral - Systemic effects	0.83 mg/kg	
	Long-term - dermal - Systemic effects	0.83 mg/kg	
Methyl methacrylate	Acute dermal - Local effects	1500 mg/m <sup>3</sup>	
	Long-term - inhalation - Local effects	74.3 mg/m <sup>3</sup>	Long-term - dermal - Local effects 8.2 mg/kg

### 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area. Eye wash bottle with water.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles. In case of splashing, wear: . Face shield.
Skin protection - Handprotection	Wear suitable gloves. Chemical resistant gloves (PVC). Polyvinyl chloride - PVC (Thickness 0.2mm for periods of 1 - 4 hours.Consult with glove manufacturer for breakthrough times.).
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. For short periods of work a combination of charcoal filter and particulate filter is suitable. Suitable half mask respirator with filter P2 (EN 143).

**8.2. Exposure controls**

<b>8.2.3. Environmental exposure controls</b>	Not normally required.
<b>Occupational exposure controls</b>	Wash hands at the end of each shift and before eating, smoking and using the toilet. Wash skin promptly if skin becomes contaminated. Promptly remove any clothing that has become contaminated.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Colourless
<b>Odour</b>	Characteristic
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Initial boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Fat Solubility</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	No data available

**9.2. Other information**

<b>Conductivity</b>	No data available
<b>Surface tension</b>	No data available
<b>Gas group</b>	No data available

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

	Avoid contact with: Copper and its alloys. Peroxides. Strong acids.
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**10.2. Chemical stability**

	Stable under normal conditions.
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**10.3. Possibility of hazardous reactions**

	If product is contaminated and becomes unstable the product may polymerize and produce an exothermic reaction.
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**10.4. Conditions to avoid**

	Heat. Keep only in the original container at a temperature not exceeding 15 °C.
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**10.5. Incompatible materials**

	Acids. Copper and its alloys. Strong oxidising agents.
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**10.6. Hazardous decomposition products**

#### 10.6. Hazardous decomposition products

Burning produces irritating, toxic and obnoxious fumes. Stable under normal conditions.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	No data is available on this product.
Skin corrosion/irritation	Irritating to skin.
Serious eye damage/irritation	Irritating to eyes.
Respiratory or skin sensitisation	Irritant, moderate respiratory.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.
STOT-single exposure	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
STOT-repeated exposure	No data is available on this product.
Aspiration hazard	No data is available on this product.

#### 11.1.4. Toxicological Information

1,3-Diaminopropane	Oral Rat LD50: 700mg/kg	Dermal Rabbit LD50: 177mg/kg
Butylated Hydroxytoluene	Oral Rat LD50: 1700mg/kg Dermal Guinea Pig LD50: >8000mg/kg	Oral Mouse LD50: 800-1600mg/kg
Isobornyl acrylate	Inhalation Rat LC50/4 h: No data Dermal Rabbit LD50: >3000mg/kg	Oral Rat LD50: 2300-4890mg/kg
Methyl methacrylate	Dermal Rat LD50: 5000mg/kg	
Triethylborane-1,3-diaminopropane complex	Oral Rat LD50: 700mg/kg	Dermal Rabbit LD50: 200mg/kg

#### 11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

Irritating to eyes, respiratory system and skin.

### SECTION 12: Ecological information

#### 12.1. Toxicity

1,3-Diaminopropane	Daphnia EC50/48h: 27 mg/l Daphnia LC50/48h: 27	Fish LC50/96h: 1190 mg/l Fathead minnows LC50/96h: 1190
Butylated Hydroxytoluene	Daphnia EC50/48h: 0.6100 mg/l Fish LC50/96h: 0.5700 mg/l NOEC / EC10 for marine or freshwater organisms: -0.3160 mg/l	Algae IC50/72h: 0.4000 mg/l
Isobornyl acrylate	Fish LC50/96h: 0.7000 mg/l	Daphnia LC50/48h: 1mg/L
Methyl methacrylate	Daphnia EC50/48h: 69 mg/l Daphnia LC50/48h: 69mg/l	Fish LC50/96h: 130.0000 mg/l Fathead minnows LC50/96h: 130mg/l
Styrene butadiene copolymer	Daphnia EC50/48h: 153.0000 mg/l Daphnia LC50/48h: >153mg/l	Fish LC50/96h: 180.0000 mg/l Rainbow trout LC50/96h: >180mg/l
Triethylborane-1,3-diaminopropane complex	Daphnia EC50/48h: 27.2 mg/l	

#### 12.2. Persistence and degradability

No data available.

#### 12.3. Bioaccumulative potential

Does not bioaccumulate.

**Partition coefficient**

D373 Part B No data available

**12.4. Mobility in soil**

Immiscible in water.

**12.5. Results of PBT and vPvB assessment**

The product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

None.

**SECTION 13: Disposal considerations****General information**

Wear protective gloves/protective clothing/eye protection/face protection. Dispose of in compliance with all local and national regulations.

**Disposal methods**

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Dispose of this material and its container to hazardous or special waste collection point.

**Disposal of packaging**

Empty containers can be sent for disposal or recycling.

**SECTION 14: Transport information****14.1. UN number**

The product is not classified as dangerous for carriage.

**14.2. UN proper shipping name**

The product is not classified as dangerous for carriage.

**14.3. Transport hazard class(es)**

The product is not classified as dangerous for carriage.

**14.4. Packing group**

The product is not classified as dangerous for carriage.

**14.5. Environmental hazards**

The product is not classified as dangerous for carriage.

**14.6. Special precautions for user**

The product is not classified as dangerous for carriage.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

The product is not classified as dangerous for carriage.

**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. REGULATION (EC) No 1272/2008 of 16th December 2008 on Classification, Labelling and Packaging of substances and mixtures. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European

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

Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**15.2. Chemical safety assessment**

No Chemical safety assessment has been conducted on this product.

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

<b>Acronyms</b>	BCF: Bioconcentration factor. Biochemical oxygen demand. COD: Chemical oxygen demand. DMEL: Derived minimal effect level. DNEL: Derived no-effect level. PNEC: Predicted no-effect concentration.
<b>Data sources</b>	European Chemical Agency.(ECHA).
<b>Text of Hazard Statements in Section 3</b>	Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H335 - May cause respiratory irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 3: H226 - Flammable liquid and vapour. Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 2: H310 - Fatal in contact with skin. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Acute Tox. 4: H312 - Harmful in contact with skin. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

**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.