

D320 Part B**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name	D320 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 South Yorkshire S75 4HH
Web	www.delta-adhesives.co.uk
Telephone	+44 (0)1226 381571
Fax	+44 (0)1226 381722
Email	Info@delta-adhesives.co.uk
Email address of the competent person	Info@delta-adhesives.co.uk


1.4. Emergency telephone number

Emergency telephone number	+44(0)1226 381571
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	Flam. Liq. 1: H224; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335;
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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Flam. Liq. 1: H224 - Extremely 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.
Precautionary Statement: Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

2.2. Label elements

Precautionary Statement: Response	P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Storage	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER/doctor/ if you feel unwell. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
Precautionary Statement: Disposal	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container to hazardous waste collection point. Refer to section 13.1 for waste treatment methods.

2.3. Other hazards

Other hazards	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	70 - 80%	Flam. Liq. 2: H225; STOT SE 3: H335; Skin Irrit. 2: H315; Skin Sens. 1: H317;
Pyridine, 3,5-diethyl-1,2-dihydro-1-phenyl-2-propyl-Kraton Rubber		34562-31-7	252-091-3		1 - 10%	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319;
Copper naphthenate	029-003-00-5	1338-02-9	215-657-0		20 - 30%	
					0 - 0.5%	Flam. Liq. 3: H226; Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Keep affected person warm and at rest. get medical attention immediately.
Eye contact	Remove the affected person from the source of contamination immediately. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Immediate medical attention is required.
Skin contact	Remove the affected person from the source of contamination immediately. Remove contaminated clothing. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Move the exposed person to fresh air. Keep the affected person warm and at rest. If swallowed, seek medical advice immediately and show this container or label.

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. Inhalation of vapour may cause shortness of breath.
Eye contact	May cause irritation to eyes. May cause irritation to mucous membranes.
Skin contact	Irritating to skin.
Ingestion	May cause stomach pain or vomiting.

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

If you feel unwell, seek medical advice (show the label where possible).

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

Use as appropriate: Carbon dioxide (CO₂), Dry chemical, Foam.

5.2. Special hazards arising from the substance or mixture

Vapour may travel considerable distance to source of ignition and flash back. . Burning produces irritating, toxic and obnoxious fumes. Highly flammable.

5.3. Advice for firefighters

Self-contained breathing apparatus. Wear protective clothing. In case of fire and/or explosion do not breathe fumes. Control run off water by containing and keeping it out of sewers and watercourses.

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

Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Eliminate all sources of ignition. 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

Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind, keeping bystanders also 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 escape of liquid.

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

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Use explosion proof equipment. Keep away from sources of ignition - No smoking.

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.

7.3. Specific end use(s)

Industrial use resulting in manufacture of another substance (use of intermediates). Industrial uses: Uses of substances as such or in preparations at industrial sites.

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

8.1.1. Exposure Limit Values

Kraton Rubber	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3:
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:
Methyl methacrylate	WEL 8-hr limit mg/m3 total inhalable dust:	WEL 15 min limit mg/m3 total inhalable dust:
	WEL 8-hr limit mg/m3 total respirable dust: 10	WEL 15 min limit mg/m3 total respirable dust:
Methyl methacrylate	WEL 8-hr limit ppm: 50	WEL 8-hr limit mg/m3: 208
	WEL 15 min limit ppm: 100	WEL 15 min limit mg/m3: 416
	WEL 8-hr limit mg/m3 total inhalable dust: -	WEL 15 min limit mg/m3 total inhalable dust: -
	WEL 8-hr limit mg/m3 total respirable dust: -	WEL 15 min limit mg/m3 total respirable dust: -

DNEL: Derived no-effect level.

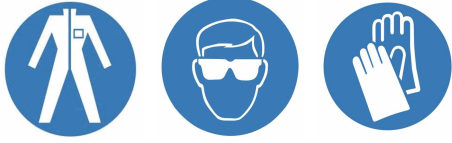
Exposure Pattern - Workers

Methyl methacrylate	Acute dermal - Local effects	1500 mg/m ³	Long-term - dermal - Local effects	13.67 mg/kg
	Long-term - inhalation - Local effects	210 mg/m ³		

Exposure Pattern - General population

Methyl methacrylate	Acute dermal - Local effects	1500 mg/m ³	Long-term - dermal - Local effects	8.2 mg/kg
	Long-term - inhalation - Local effects	74.3 mg/m ³		

8.2. Exposure controls

8.2.1. Appropriate engineering controls 8.2.2. Individual protection measures Eye / face protection Skin protection - Handprotection Respiratory protection	
	Ensure adequate ventilation of the working area.
	Wear chemical protective clothing. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash immediately with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
	Approved safety goggles. Face shield. Provide eye wash station.
	Wear suitable gloves. Chemical resistant gloves (PVC). Polyvinyl chloride - PVC ((Thickness 0.2mm for periods of 1 - 4 hours.Consult with glove manufacturer for break through times).).
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).	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Green
Odour	Characteristic
Partition coefficient (n-octanol/water)	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	> 3000 mPas (Cone & Plate)
Explosive properties	No data available
Oxidising properties	No data available
Melting point	Not applicable.
Freezing Point	No data available
Initial boiling point	No data available
Flash point	11 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper Explosive Limit	No data available
Lower Explosive Limit	No data available
Relative density	No data available
Fat Solubility	No data available
Solubility	No data available

9.2. Other information

Conductivity	No data available
Surface tension	No data available

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

	Avoid sparks, flames, heat and sources of ignition.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Oxidising agents.
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10.4. Conditions to avoid

	Heat, sparks and open flames. Do NOT allow to freeze. Keep away from strong acids, alkalis and organic peroxides/hydroperoxides.
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10.5. Incompatible materials

	Alkalis. Strong acids. Strong oxidising agents.
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10.6. Hazardous decomposition products

	Burning produces irritating, toxic and obnoxious fumes.
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SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/irritation	No irritation expected.
Respiratory or skin sensitisation	May cause sensitisation by skin contact.
Germ cell mutagenicity	No data is available on this product.

11.1. Information on toxicological effects

Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.
STOT-single exposure	May cause irritation to respiratory system.
Repeated or prolonged exposure	No data is available on this product.

11.1.4. Toxicological Information

Methyl methacrylate	Dermal Rat LD50: 5000mg/kg	
Pyridine, 3,5-diethyl-1,2-dihydro-1-phenyl-2-propyl-	Dermal Rat LD50: 500mg/kg	Dermal Rabbit LD50: 1000mg/kg

11.1.13. Other information

	Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations.
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SECTION 12: Ecological information**12.1. Toxicity**

Kraton Rubber	Fish LC50/96h: 1000.0000 mg/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

	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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12.2. Persistence and degradability

	The product is potentially degradable.
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12.3. Bioaccumulative potential

	No data is available on this product.
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Partition coefficient

	D320 Part B No data available
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12.4. Mobility in soil

	No data is available on this product.
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12.5. Results of PBT and vPvB assessment

	This product does not contain any substances classified as PBT or vPvB.
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12.6. Other adverse effects

	None.
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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.
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Disposal methods

	Dispose of this material and its container to hazardous or special waste collection point.
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SECTION 14: Transport information**Hazard pictograms**

Hazard pictograms



14.1. UN number

UN1133

14.2. UN proper shipping name

ADHESIVES

14.3. Transport hazard class(es)

ADR/RID	3
Subsidiary risk	-
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-

14.4. Packing group

Packing group II

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

Hazard ID	33
Tunnel Category	(D/E)

IMDG

EmS Code F-E S-D

IATA

Packing Instruction (Cargo)	364
Maximum quantity	60L
Packing Instruction (Passenger)	353
Maximum quantity	5L

SECTION 15: Regulatory information

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

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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 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.

15.2. Chemical safety assessment

No Chemical safety assessment has been conducted on this product.

SECTION 16: Other information**Other information**

Revision	<p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none">2 - 2.1.2. Classification - EC 1272/2008.2 - Precautionary Statement: Prevention.2 - Precautionary Statement: Response.2 - Precautionary Statement: Storage.8 - Respiratory protection.8 - Skin protection - Handprotection.9 - 9.1. Information on basic physical and chemical properties (Upper Explosive Limit).9 - 9.1. Information on basic physical and chemical properties (Lower Explosive Limit).9 - 9.1. Information on basic physical and chemical properties (Partition coefficient (n-octanol/water)).11 - Respiratory or skin sensitisation.11 - Repeated or prolonged exposure.11 - Germ cell mutagenicity.11 - Carcinogenicity.11 - Reproductive toxicity.11 - Serious eye damage/irritation.11 - STOT-single exposure.12 - 12.1. Toxicity.12 - 12.6. Other adverse effects.13 - General information.13 - Disposal methods.15 - 15.2. Chemical safety assessment.16 - Revision.
Text of Hazard Statements in Section 3	<p>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. Acute Tox. 4: H302 - Harmful if swallowed. Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 3: H226 - Flammable liquid and vapour. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.</p>

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.