

# SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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## PRO-0330 Part A

Revision 0

Revision date 2019-02-18

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

#### 1.1. Product identifier

Product name	PRO-0330 Part A
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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	PANTHER TOOLS AND PRODUCTS LTD
Address	UNIT D, VANGUARD BUILDINGS BRITANNIA ROAD CHESTERFIELD S40 2TZ
Web	www.panther-pro.co.uk
Telephone	+44 1246 559337
Fax	+44 1246 273337
Email	Sales@panther-pro.co.uk
Email address of the competent person	Sales@panther-pro.co.uk

#### 1.4. Emergency telephone number


Emergency telephone number	+44 1246 559337
Company	PANTHER TOOLS AND PRODUCTS

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Skin Corr. 1B: H314; Skin Sens. 1: H317; STOT SE 3: H335; Repr. 1B: H360Df; Aquatic Chronic 3: H412;
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#### 2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H335 - May cause respiratory irritation. Repr. 1B: H360Df - May damage the unborn child. Suspected of damaging fertility. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

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## 2.2. Label elements

<b>Precautionary Statement: Prevention</b>	<p>P201 - Obtain special instructions before use.</p> <p>P202 - Do not handle until all safety precautions have been read and understood.</p> <p>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P264 - Wash thoroughly after handling.</p> <p>P271 - Use only outdoors or in a well-ventilated area.</p> <p>P272 - Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 - Avoid release to the environment.</p> <p>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p>
<b>Precautionary Statement: Response</b>	<p>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P302+P352 - IF ON SKIN: Wash with plenty of water/ .</p> <p>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 - IF exposed or concerned: Get medical advice/attention.</p> <p>P310 - Immediately call a POISON CENTER/doctor/ .</p> <p>P312 - Call a POISON CENTER/doctor/ /if you feel unwell.</p> <p>P321 - Specific treatment (see on this label).</p> <p>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P363 - Wash contaminated clothing before reuse.</p>
<b>Precautionary Statement: Storage</b>	<p>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 - Store locked up.</p>
<b>Precautionary Statement: Disposal</b>	<p>P501 - Dispose of contents/container to</p>

## 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
Cumene Hydro-Peroxide	617-002-00-8	80-15-9	201-254-7		1 - 10%	Skin Corr. 1B: H314;
2-Methylpropenoic acid (Methacrylic acid)	607-088-00-5	79-41-4	201-204-4	01-2119463884-26	1 - 10%	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1A: H314;
Methyl methacrylate	607-035-00-6	80-62-6	201-297-1	01-2119452498-28	30 - 40%	Flam. Liq. 2: H225; STOT SE 3: H335; Skin Irrit. 2: H315; Skin Sens. 1: H317;
Benzyl methacrylate		2495-37-6	219-674-4		30 - 40%	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; STOT SE 3: H335;
2 PHENOXYETHYL METHACRYLATE		10595-06-9	234-201-1		10 - 20%	Skin Irrit. 2: H315; Eye Irrit. 2: H319;
Tetrahydrofurfuryl Methacrylate		2455-24-5	219-529-5		1 - 10%	Repr. 1B: H360Df; Aquatic Chronic 3: H412;
Cumene	601-024-00-X	98-82-8	202-704-5		0 - 0.5%	Flam. Liq. 3: H226; Asp. Tox. 1: H304; STOT SE 3: H335; Aquatic Chronic 2: H411;
Styrene butadiene copolymer		9003-55-8			1 - 10%	
2-Hydroxyethyl methacrylate	607-124-00-X	868-77-9	212-782-2	01-2119490169-29	1 - 10%	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317;
Triethyleneglycol Dimethacrylate		109-16-0	203-652-6	01-2119969287-21	1 - 10%	Skin Sens. 1: H317;
Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)		128-37-0	204-881-4	01-2119555270-46	0 - 0.5%	Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

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## 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	Ingestion causes burns to the respiratory tract.

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

	Treat Symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.
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### 5.2. Special hazards arising from the substance or mixture

	Corrosive. . Burning produces irritating, toxic and obnoxious fumes. Vapour may travel considerable distance to source of ignition and flash back.
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### 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.
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## 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.
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### 6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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### 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.
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### 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.
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## SECTION 7: Handling and storage

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## 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.
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## 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.
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## 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.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure Limit Values

2-Methylpropenoic acid (Methacrylic acid)	WEL 8-hr limit ppm: 20	WEL 8-hr limit mg/m3: 72
	WEL 15 min limit ppm: 40	WEL 15 min limit mg/m3: 143
	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:
Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	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:
Cumene	WEL 8-hr limit ppm: 25	WEL 8-hr limit mg/m3: 125
	WEL 15 min limit ppm: 50	WEL 15 min limit mg/m3: 250
	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:
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:
Styrene butadiene copolymer	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3:
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:
	WEL 8-hr limit mg/m3 total 4 inhalable dust:	WEL 15 min limit mg/m3 total inhalable dust:
	WEL 8-hr limit mg/m3 total 10 respirable dust:	WEL 15 min limit mg/m3 total respirable dust:

DNEL: Derived no-effect level.

Exposure Pattern - Workers

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## 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	
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	
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.
8.2.2. Individual protection measures	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.
Eye / face protection	Approved safety goggles. Face shield. Provide eye wash station.
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 break through 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).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

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

## 9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	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	Causes burns.
Serious eye damage/irritation	CAUSES EYE BURNS.
Respiratory or skin sensitisation	May cause sensitisation by skin contact.

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## 11.1. Information on toxicological effects

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	May cause irritation to respiratory system.
STOT-repeated exposure	No data is available on this product.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged exposure	Causes severe burns.

## 11.1.4. Toxicological Information

2-Hydroxyethyl methacrylate	Dermal Rat LD50: >5000mg/kg	Oral Rat LD50: >5000mg/kg
2-Methylpropenoic acid	Oral Rat LD50: 1320mg/kg	Dermal Rabbit LD50: 500mg/kg
Butylated Hydroxytoluene	Oral Rat LD50: 1700mg/kg Dermal Guinea Pig LD50: >8000mg/kg	Oral Mouse LD50: 800-1600mg/kg
Cumene	Dermal Rat LD50: 12.3mg/kg	Oral Rat LD50: 2910mg/kg
Cumene Hydro-Peroxide	Inhalation Rat LC50/4 h: 220ppm	Oral Rat LD50: 382mg/kg
Methyl methacrylate	Dermal Rat LD50: 5000mg/kg	
Tetrahydrofurfuryl Methacrylate	Oral Rat LD50: 4000mg/kg	
Triethyleneglycol Dimethacrylate	Oral Mouse LD50: >200mg/kg body weight	

## 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

2-Hydroxyethyl methacrylate	Algae IC50/72h: 836.0000 mg/l	Fish LC50/96h: 100.0000 mg/l
2-Methylpropenoic acid	Daphnia EC50/48h: 130.0000 mg/l	Rainbow trout LC50/96h: 85mg/l
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
Cumene	Fish LC50/96h: 6.3200 mg/l	
Cumene Hydro-Peroxide	Fish LC50/96h: 3.9000 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
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
Tetrahydrofurfuryl Methacrylate	Fish LC50/96h: 34.7000 mg/l	Algae EC50/72h: >100mg/l
Triethyleneglycol Dimethacrylate	Daphnia EC50/48h: 100.0000 mg/l	Fish LC50/96h: 16.4 mg/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

	D354 Part A No data available
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## 12.4. Mobility in soil

No data is available on this product.

## 12.5. Results of PBT and vPvB assessment

This 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

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

## 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. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European 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



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## Other information

<b>Acronyms</b>	DMEL: Derived minimal effect level. DNEL: Derived no-effect level. PNEC: Predicted no-effect concentration.
<b>Text of Hazard Statements in Section 3</b>	<p>Org. Perox. EF: H242 - Heating may cause a fire.</p> <p>Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin</p> <p>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.</p> <p>Skin Irrit. 2: H315 - Causes skin irritation.</p> <p>Eye Dam. 1: H318 - Causes serious eye damage.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>Acute Tox. 3: H331 - Toxic if inhaled.</p> <p>STOT SE 3: H335 - May cause respiratory irritation.</p> <p>STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .</p> <p>Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.</p> <p>Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.</p> <p>Flam. Liq. 2: H225 - Highly flammable liquid and vapour.</p> <p>Skin Sens. 1: H317 - May cause an allergic skin reaction.</p> <p>Repr. 1B: H360Df - May damage the unborn child. Suspected of damaging fertility.</p> <p>Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.</p> <p>Flam. Liq. 3: H226 - Flammable liquid and vapour.</p> <p>Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.</p> <p>Aquatic Acute 1: H400 - Very toxic to aquatic life.</p> <p>Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.</p>

## Further information

	<p>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.</p>
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name	D354 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 Address	PANTHER TOOLS AND PRODUCTS LTD UNIT D, VANGUARD BUILDINGS BRITANNIA ROAD CHESTERFIELD S40 2TZ
Web	www.panther-pro.co.uk
Telephone	+44 1246 559337
Fax	+44 1246 273337
Email	Sales@panther-pro.co.uk
Email address of the competent person	Sales@panther-pro.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.

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## 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.
<b>Precautionary Statement: Disposal</b>	P405 - Store locked up. 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

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## 4.1. Description of first aid measures

	water. Seek medical attention.
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## 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.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical.
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### 5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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### 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.
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## 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.
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### 6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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### 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.
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### 6.4. Reference to other sections

	SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.
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## 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.
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### 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.
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### 7.3. Specific end use(s)

	Refer to Section 1.2.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure Limit Values

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## 8.1.1. Exposure Limit Values

Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)	WEL 8-hr limit ppm: -  WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 8-hr limit mg/m3: 10  WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Methyl methacrylate	WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 100 WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 8-hr limit mg/m3: 208 WEL 15 min limit mg/m3: 416 WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Styrene butadiene copolymer	WEL 8-hr limit ppm: WEL 15 min limit ppm: WEL 8-hr limit mg/m3 total 4 inhalable dust: WEL 8-hr limit mg/m3 total 10 respirable dust:	WEL 8-hr limit mg/m3: WEL 15 min limit mg/m3: WEL 15 min limit mg/m3 total inhalable dust: WEL 15 min limit mg/m3 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).

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## 8.2. Exposure controls

8.2.3. Environmental exposure controls	Not normally required.
Occupational exposure controls	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

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

## 9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	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

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## 10.6. Hazardous decomposition products

	Burning produces irritating, toxic and obnoxious fumes. Stable under normal conditions.
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## 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.
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## 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.
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## 12.3. Bioaccumulative potential

	Does not bioaccumulate.
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## Partition coefficient

D354 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

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## 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).
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## 15.2. Chemical safety assessment

	No Chemical safety assessment has been conducted on this product.
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## SECTION 16: Other information

## Other information

Acronyms	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.
Data sources	European Chemical Agency.(ECHA).
Text of Hazard Statements in Section 3	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.
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