

Bat roosts and timber treatment products

This note has been written to help those involved with timber treatment and pest control. It provides a list of currently approved remedial timber treatment chemicals and products that can be used where there are bat roosts. It updates the information in the 3rd edition of the *Bat Workers Manual* and in our previous guidance note dated February 2009. Chemical products change regularly and this note will be updated as information becomes available, therefore please always refer to the latest edition of the note.

Introduction

Where bat roosts are present timber treatments should only be applied at the recommended time of year and Natural England's bat advice helpline should be consulted before any known bat roost is treated with any product. The helpline numbers are listed in *Further information* below.

Detailed guidance relating to pest control and treating timbers where there are bat roosts can be found in Chapter 10 of the *Bat Workers Manual* (3rd edition, 2004). This includes information on:

- the types of problems encountered;
- chemical treatments; and
- the appropriate timing of works.

See *Further information* below for a link to this guidance.

The information in the tables is correct at the time of publication, but may be subject to change as new information becomes available.

Chemical timber treatment products

Chemical-based products coming in and out of the timber treatment market change regularly and information regarding products for which an individual company currently holds an approval under the Control of Pesticide Regulations (COPR) may not be completely available at any given time.

The tables at the end of this note list suitable products by active ingredients (Tables 1 and 2) and by company and product name (Table 3).

Products that are not currently considered suitable for use around bat roosts are listed in Tables 4, 5 and 6. Note, some of these may previously have been considered suitable.

Products that contain the active ingredients listed in Tables 1 and 2 (either alone or in combination with each other), but that do not appear on the lists of specified products below in Table 3 can be considered suitable to use around bat roosts, when used as directed and in the concentrations specified.

The lists do not cover the use of pre-treatment products. A wider range of active ingredients is used for the pre-treatment of structural timbers and some of these are

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considered harmful to bats when used as remedial products.

There is no evidence that any pre-treatment of timbers is harmful to bats, probably because the method of application results in much lower concentrations of pesticides on the wood surface compared with remedial applications.

The lists do not include decorative wood finishes, such as stains or wood preservatives, which may be used to treat external timbers, weatherboarding, shingles etc. Provided these are used only on external timbers they present no significant hazard to bats. Most of these products contain one or more of the fungicides listed in Table 2 below.

Further information

Natural England's bat advice helpline should be consulted before any known bat roost is treated with any product. The helpline numbers are:

- Cumbria (Sally Phillips) 01768 776911
- East Midlands region covering Northamptonshire, Nottinghamshire, Derbyshire, Lincolnshire, Leicestershire and Rutland (FPCR) 01509 672772
- London (Natural England) 0300 060 2130
- Rest of England (Bat Conservation Trust) 0845 130 0228

Chapter 10 of the *Bat Workers Manual*, 3rd edition, 2004. Provides further information on the types of problems encountered, chemical treatments and the appropriate timing of works.

www.jncc.gov.uk/pdf/batwork_manualpt4.pdf

Other leaflets and guidance on bats:

www.naturalengland.org.uk/ourwork/regulation/wildlife/advice/advisoryleaflets.aspx

Natural England Technical Information Notes are available to download from the Natural England website: www.naturalengland.org.uk.

For further information contact the Natural England Enquiry Service on 0845 600 3078 or e-mail enquiries@naturalengland.org.uk.

Contact details

Biokil Crown Ltd, 7 Stadium Industrial Park, Springfield Avenue, Long Eaton, Nottingham, NG10 2DD. Tel: 0115 946 0060. Fax: 0115 946 9767. www.biokilcrown.co.uk

Cuprinol Limited, Adderwell House, Frome, Somerset, BA11 1NL. Tel: 01373 475000. Fax: 01373 475050. www.cuprinol.co.uk

Kingfisher Chemicals Limited, Bardsea Business Park, Bardsea, Ulverston, Cumbria, LA12 9RA. Tel: 01229 869100. Fax: 01229 869101. www.kingfisheruk.com/

Laybond Products Ltd, Riverside, Saltney, Chester, Cheshire, CH4 8RS. Tel: 01244 674774. Fax: 01244 682218.

Palace Chemicals Limited, Speke Hall Industrial Estate, Speke, Liverpool, L24 1YA. Tel: 0151 486 6101. Fax: 0151 448 9608. www.palacechemicals.co.uk

Permagard Products Ltd, Chittening Industrial Estate, Avonmouth, Bristol, BS11 0YB. Tel: 0117 938 1596. Fax: 0117 938 1584. www.permaguard.co.uk

Peter Cox Limited, Aniseed Park, Broadway Business Park, Chadderton, Manchester, OL9 9XA. Tel: 0800 030 4701. Fax: 0161 684 6305. www.petercox.com

Protim Solignum Limited, Fieldhouse Lane, Marlow, Bucks, SL7 1LS. Tel: 01628 486644. Fax: 01628 476757. www.protimsolignum.com

Rentokil Initial UK Limited, 2 City Place, Beehive Ring Road, Gatwick Airport, West Sussex, RH6 0HA. Tel: various 0800 numbers depending on type of problem, see website for details. www.rentokil.co.uk/index.html

Safeguard Europe Limited, Redkiln Close, Horsham, West Sussex RH13 5QL. Tel: 01403 210204. www.safeguardchem.com/

Sovereign Chemicals Limited, Park Road, Barrow in Furness, Cumbria, LA14 4QU. Tel: 01229 870800. Fax: 01229 870850. www.sovchem.co.uk

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Triton Chemical Manufacturing Co. Limited,
Triton House, Lyndean Industrial Estate, 129
Felixstowe Road, Abbey Wood, London, SE2
9SG. Tel: 020 8310 3929. Fax: 0208 312 0349.
www.triton-chemicals.co.uk/

**Wykamol Group incorporating Stanhope
Chemical Products & Lectros International
Limited**, Unit 3 Boran Court, Network 65
Business Park, Burnley, Lancashire, BB11 5TH.
Tel : 0845 400 6666. Fax: 0845 400 3333.
www.wykamol.com www.lectros.com

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Table 1 Active ingredients (insecticides) suitable for use in bat roosts

Active ingredient	Concentration	Acceptable uses
Permethrin	0.2%	Any remedial use
Cypermethrin	0.1%	Any remedial use
Deltamethrin		
Boric acid, Disodium octoborate, Tri(hexylene glycol) baborate	5-20%	Any remedial use
Flufenoxuron (Flurox®)	0.025%	Any remedial use

Table 2 Active ingredients (fungicides) suitable for use in bat roosts

Active ingredient	Concentration	Acceptable uses
Boric Acid, Disodium tetraborate, Disodium octoborate, Tri(hexylene glycol) baborate	3.5%	Any suitable application
Benzalkonium chloride		Any suitable application
Dichlofluanid		Decorative stains and finishes
3-iodo-2-propynyl-N-butyl carbamate (Polyphase/IPBC)	0.5%	Any suitable application
Propiconazole		Any suitable application

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Table 3 Remedial timber treatment products suitable for use in bat roosts¹

Company and product name	Type ²	User ³	Active ingredients	HSE No. ⁴
BIOKIL CROWN LTD				
Ultra-Tech 2000I Insecticide	M	P	Permethrin	7273
Brokil Boracol 10RH	S	P	Disodium octoborate, Benzalconium chloride	7271
Brokil Boracol 20	S	P	Disodium octoborate	7264
Brushable Boron Gel	Pa	P	Disodium octoborate	7255
Brand (CUPRINOL) LIMITED				
5 star complete wood treatment (FP)	S	A	Propiconazole 0.6%, Flufenoxuron 0.02%	7878
Woodworm killer	S	A	Flufenoxuron 0.02%	7877
Trade low odour 5 star complete wood treatment	S	A	Propiconazole 0.6%, Flufenoxuron 0.02%	7879
Trade low odour woodworm killer (T)	S	A	Flufenoxuron 0.02%	7876
IMPERIAL CHEM IND LTD				
Low Odour Woodworm Killer	S	A	Permethrin	5435
KINGFISHER CHEMICALS LIMITED				
Insecticide/Fungicide	S	P	Permethrin, Tri (hexylene glycol) baborate	5933
KF8 Insecticide Microemulsion Conc.	M	P	Permethrin	6827
Timberpaste	Pa	P	Permethrin, Tri hexylalene baborate	6686
N-VIROL LTD				
Woodworm Killer	M	P	Permethrin	8570
Dual FI	M	P	Permethrin, IPBC, Propiconazole	8569
Timber Treatment Paste	Pa	P	Permethrin, IPBC	8488
Masonry Biocide	M	P	IPBC	8476
N-VIROBOR 10	A	P+A	Disodium Octoborate + Benzalkonium Chloride	8473
N-VIROBOR 20 Gel	Pa	P	Disodium Octoborate	8475
Algae & Moss Killer	E	P+A	Didecyldimethyl Ammonium Chloride	8669

Table continued...

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Company and product name	Type ²	User ³	Active ingredients	HSE No. ⁴
PERMAGARD PRODUCTS LTD				
Microguard Permethrin Conc.	M	P	Permethrin	5741
Microguard Mouldicidal Wood Preserver	W	A	Benzalkonium chloride, Boric acid	5100
PETER COX LIMITED				
Insecticide WSS	M	P	Permethrin	7528
Masonry Biocide WSS	M	P	IPBC	7509
Timber Gel Ready to Use	Pa	P	IPBC, Permethrin, Propiconazole	6840
PROTIM SOLIGNUM LIMITED				
Protim B10	A	A	Disodium octoborate	4971
Protim Universal AQ250	M	P	Permethrin, IPBC	5844
Preservative Gel	Pa	P	Disodium octoborate + benzalkonium choride	6528
RENTOKIL INITIAL LIMITED				
Rentokil Woodworm Treatment	S	A	Permethrin	3911
Woodworm Treatment Spray	S	A	Permethrin	5619
Control Fluid SB	A	P	Boric acid, disodium tetraborate	6018
Rentokil Control Paste SB	Pa	P	Boric acid, disodium tetraborate	6501
SAFEGUARD CHEMICALS LIMITED				
ProBor 50 Paste	Pa	P	Disodium octoborate + Dialkyldimethyl ammonium chloride	5596
Safeguard Antiflame 4050 WD	A	P	Disodium octoborate	5656
ProBor 10	A	P	Disodium octoborate + benzalkonium chloride	6595
ProBor DB	A	P	Disodium octoborate	6673

Table continued...

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Company and product name	Type ²	User ³	Active ingredients	HSE No. ⁴
Probor 20 brushable gel	Pa	P	Disodium octoborate, (DDAC) Dialkyldimethyl ammonium chloride	6422
BASF PLC				
Devatern 0.5 L	S	A	Cypermethrin	3874
Devatern 1.0 L	S	P	Cypermethrin	3876
SOVEREIGN CHEMICALS LIMITED				
Sovereign Fungicide/Insecticide	S	P	Flufenoxuron, IPBC, Propiconazole	6828
Sovaq FLX I	M	P	Flufenoxuron	6510
Sovereign Sovaq FLX F/I	M	P	IPBC, Propiconazole + Flufenoxuron	6509
Sovereign Timbor Rod	R	P	Sodium octoborate	4627
Sovereign Deepkill Timber Paste	Pa	P	Permethrin, IPBC	6084
Sovac F/I	S	P	IPBC, Propiconazole	6262
Remtox MF8 Microemulsion	M	P	Flufenoxuron	6507
Remtox Micro Dual purpose F/1	K7(M)	P	IPBC, Propiconazole, Flufenoxuron	6871
Remtox Borocol 20 Wood Preservative	E	P	Disodium octoborate	4094
Remtox-Silexine B40 Paste Wood Preservative	Pa	P	Disodium octoborate	4161
TRITON CHEMICAL MANUFACTURING COMPANY				
Tritec 120	M	P	Permethrin	6539
Tritec 120 Plus	M	P	Permethrin, Propiconazole	6537
Tritec 121	M	P	Permethrin	6541
Tritec 121 Plus	M	P	Permethrin, Propiconazole	6538
Tribor 20	S	P	Disodium octoborate	6242
Tribor Gel	S	P	Disodium octoborate	6099
Tribor Plus	Pa	P	Disodium octoborate, Permethrin	7549

Table continued...

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Company and product name	Type ²	User ³	Active ingredients	HSE No. ⁴
Trimethrin 20S	S	P	Permethrin	4621
WYKAMOL GROUP incorporating STANHOPE CHEMICAL PRODUCTS & LECTROS INTERNATIONAL LIMITED				
Aquatech Woodworm	M	P	Permethrin	7990
Aquatech Dual	M	P	Permethrin, IPBC, Propiconazole	7991
Brunosol Concentrate 6X	E	P	Sodium 2 phenyl phenoxide	7325
Lectros 8WW	M	P	Permethrin	6398
Lectros Micro 8FI	M	P	Permethrin, Propiconazole, IPBC	6584
Microtech Dual Purpose	M	P	Permethrin, Propiconazole	7338
Microtech WWK25	M	P	Permethrin	7326
Microtreat Insecticide II	M	P	Permethrin	7534
Microtreat Dual II	M	P	Permethrin, Propiconazole, IPBC	7533
Woodtreat Paste	Pa	P	Permethrin, IPBC	7362
Wykabor 10	A	P	Disodium Octaborate + Benzalkolium chloride	7324
Wykabor 20	S	P	Disodium Octaborate	7518
Wykabor 20 Gel	Pa	P	Disodium Octaborate	7517
Wykabor 40	Pa	P	Disodium Octaborate	7307
Wykamol Plus	S	P	Permethrin, IPBC	7303
Wykamol Boron Rods	R	A	Boric oxide	7405

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Table 4 Remedial timber treatment products that are **NOT SUITABLE** for use in bat roosts - withdrawn products⁵

Company and product name	Type ²	User ³	Active ingredients	HSE No. ⁴
ANTEL (UK) LTD				
Woodworm Killer P	E	P	Permethrin	4044
BIOKIL CROWN LTD				
Ultra-Tech 2000D	M	P	Permethrin, Propiconazole	6304
Crown Micro Woodworm	M	P	Permethrin	6894
KINGFISHER CHEMICALS LIMITED				
KF-8 Insecticide Micro Emulsion Conc.	M	P	Permethrin	5786
PROTIM SOLIGNUM LIMITED				
Solignum Woodworm Killer	S	A	Permethrin	5002
RENTOKIL INITIAL LIMITED				
Rentokil Woodworm Killer	A	A	Permethrin	4208
RESTORATION UK LIMITED				
Omega Biocide	E	P	IPBC	6381
WYKAMOL GROUP incorporating STANHOPE CHEMICAL PRODUCTS & LECTROS INTERNATIONAL LIMITED				
Microtreat Insecticide 25X	M	P	Permethrin	6913
Microtreat Dual 12.5X	M	P	Permethrin, Propiconazole, IPBC	6917

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Table 5 Remedial timber treatment products that are **NOT SUITABLE** for use in bat roosts - revoked products⁶

Company and product name	Type ²	User ³	Active ingredients	HSE No. ⁴
Brand (CUPRINOL) LIMITED				
Wood preserver clear (IP)	S	A	Propiconazole 0.4%, Iodo propynyl butylcarbamate 0.4%	7897
Wood preserver green (P)	S	A	Propiconazole 0.6%	8175
Wood preserver (P)	S	A	Propiconazole 0.6%	7946
Trade low odour wood preserver clear (T)	S	A	Propiconazole 0.4%, Iodo propynyl butylcarbamate 0.4%	7899
Trade low odour wood preserver green (TG)	S	A	Propiconazole 0.6%	8121
DEAL DIRECT LIMITED				
Dual 8	M	P	Permethrin, Tri (hexylene glycol) bitorate	6255
Woodworm Treatment Concentrate	M	P	Permethrin	6249
KINGFISHER CHEMICALS LIMITED				
KF-8 Dual Purpose Microemulsion Conc.	M	P	Permethrin, Tri (hexylene glycol) bitorate	6075
Wood Preservative (clear/brown)	S	P	Tri (hexylene glycol) bitorate	4012
PALACE CHEMICALS LIMITED				
Microfine 8 Insecticide Concentrate	M	P	Permethrin	5809
PERMAGARD PRODUCTS LTD				
Microguard FI conc.	M	P	Permethrin, Boric acid	5854
Microguard Woodworm	W	A	Permethrin	5103
PETER COX LIMITED				
Fungicide WSS ⁷	M	P	Propiconazole, IPBC	7516
Timber Water Repellent	S	P	IPBC	6621
PROTIM SOLIGNUM LIMITED				
Protim Insecticidal AQ8	M	P	Permethrin	6526
Solignum Insecticidal AQ8	M	P	Permethrin	6527
RESTORATION UK LIMITED				
Restor-8 Insecticide Conc.	E	P	Permethrin	5962
Restor-8 Dual Purpose Conc.	E	P	Permethrin, Tri hexylene glycol bitorate	5963

Table continued...

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Company and product name	Type ²	User ³	Active ingredients	HSE No. ⁴
Omega Plus	M	P	Permethrin, Trihexylene glycol baborate	6382
Omega	M	P	Permethrin	6379
SAFEGUARD CHEMICALS LIMITED				
Deepwood 8 Micro Emulsifiable bechzide Conc.	M	P	Permethrin	5664
Micron 8 dual purpose emulsion Conc.	M	P	Permethrin, Trihexylene glycol baborate	5851
BASF PLC				
Devatern EC	E	P	Cypermethrin	3875
TRITON CHEMICAL MANUFACTURING COMPANY				
Trisol 120	M	P	Propiconazole	6540

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Table 6 Remedial timber treatment products that are **NOT SUITABLE** for use in bat roosts – void products⁸

Company and product name	Type ²	User ³	Active ingredients	HSE No. ⁴
BIOKIL CROWN LTD				
Crown Micro Dual Purpose	M	P	Permethrin, Tri (hexylene glycol) baborate	6895
Crown Timberpaste	Pa	P	Permethrin	5869
Brand (CUPRINOL) LIMITED				
Wood Preserver (light/dark oak)	S	A	Acypetacs-zinc	4698
Low Odour Wood Preserver Green	S	A	Acypetacs-copper	5448
Decorative Preserver (5 colours)	S	A	Acypetacs-zinc, Dichlofluanid	6277
Decorative Preserver Red Cedar	S	A	Acypetacs-zinc, Dichlofluanid	6280
Low Odour 5 Star Wood Treatment	S	A	Acypetacs-zinc, Permethrin	5445
Low Odour Wet and Dry Rot Killer	S	A	Acypetacs-zinc	5446
KINGFISHER CHEMICALS LIMITED				
Ecology Fungicide/Insecticide Concentrate	E	P	Permethrin, Tri (hexylene glycol) baborate	5930
LAYBOND PRODUCTS LTD				
Timber Protector	S	A	Cypermethrin, 2-Phenylphenol	5369
Wood Preserver (3 colours)	S	A	2-Phenylphenol	5382
PALACE CHEMICALS LIMITED				
Ecology Fungicide/Insecticide Concentrate	E	P	Cypermethrin, Tri (hexylene glycol) baborate	3792
Fungicide/Insecticide	S	A	Cypermethrin, Tri (hexylene glycol) baborate	3795
PERMAGARD PRODUCTS LTD				
Permatreat Paste	Pa	P	Permethrin, Tri hexylene glycol/baborate	4075
PROTIM SOLIGNUM LIMITED				
Solignum Green Preservative	S	A	Permethrin, Tri hexylene glycol baborate	7146
Osmose Endcoat	S	A	Tri hexylene glycol baborate	7049
SAFEGUARD CHEMICALS LIMITED				
Deepwood III timber treatment	S	P	Permethrin, Trihexylene glycol baborate	3937
BASF PLC				
Devatern Wood Preserver	S	P	Cypermethrin + Trihexylene glycol baborate	4073
SOVEREIGN CHEMICALS LIMITED				

Table continued...

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Company and product name	Type ²	User ³	Active ingredients	HSE No. ⁴
Sovereign Timber Preservative (Clear)	S	P	Boron ester	3807
TRITON CHEMICAL MANUFACTURING COMPANY				
Tripaste PB	Pa	P	Permethrin, Tri (hexylene glycol) baborate	6080
Trimethrin OS plus	S	P	Permethrin, Tri hexylene glycol baborate	3521

¹ Products on the list are those that have come to the attention of Natural England; other suitable products may also be available. Pre-treatment and decorative products are not included. The efficacy of particular products in particular situations is the responsibility of the manufacturer and no endorsement is given or implied. At the time of writing (27 August 2010), these products have approval under the Control of Pesticides Regulations (COPR).

² S Solvent-based product
 E Emulsifiable concentrate (solvent); to be diluted with water
 Pa Bodied paste
 A Aqueous solution
 M Microemulsion concentrate; to be diluted with water to form a microemulsion
 R Solid rod, for insertion into pre-drilled hole
 W Ready-for-use microemulsion

³ P Cleared for professional use only
 A Cleared for professional and amateur use (a DIY product)

⁴ Health and Safety Executive (HSE), to search the pesticides databases, go to webcommunities.hse.gov.uk/connect.ti/pesticides/view?objectId=2308

⁵ These products have been withdrawn from the market by the company and no longer have approval under the Control of Pesticides Regulations (COPR).

⁶ These products have had their previous Control of Pesticides Regulations (COPR) approval revoked, usually because of the presence of nonylphenol ethoxylate.

⁷ This product (HSE 7516) has had its COPR approval revoked. This is because the active ingredients are now on Annex 1 of the Biocidal Products Directive (BPD) and the product requires authorisation under the Biocidal Products Regulations (BPR). The company has been issued with a BPR Certificate of Exemption which allows them to place the product on the UK market until the assessment is complete, which is currently pending.

⁸ The previous Control of Pesticides Regulations approval is now void. One or more of the active ingredients is no longer being reviewed under the Biocidal Products Directive (BPD) and therefore can't be used in biocidal products placed on the EU market.