

Biocide Standards Reference Guide

**Main Group I:
Disinfectants &
General Biocidal Products**



**Main Group II:
Preservatives**



**Main Group III:
Pest Control**



**Main Group IV:
Other Biocidal Products**



AccuStandard®

A biocide can be defined as a chemical or micro-organism which prevents, controls and/or renders harmless organisms through chemical or biological means. Biocides are used wherever organisms may cause product contamination or a health threat to people and/or animals. Biocides can be added to other materials to protect them against biological growth or infestation. "Treated articles" are included within the biocides regulations and are subject to the same requirements as biocides.

Biocides are used by workers in all types of industries to control viruses, bacteria, fungi, insects and animals. The intended use and chemical potency of biocides require that their use, storage and disposal be controlled to prevent adverse effects to the public and/or environment. To ensure the safety of biocides, government regulations are in place to assess the active substances within commercial products. One such regulation is the Biological Products Directive 98/8/EC (BPD) which has been recently revised and is now designated as EU Biocides Regulation 528/2012 (EU BPR). Under this legislation, active compounds are submitted for approval on the list of Approved Active Substances. This regulation went into effect in September 2013, and classifies biocides into 22 biocide product types, grouped into four main areas.

Biological Products Directive Biocides

Main Group I **Disinfectants and** **general biocidal products**

Product Type

1. Human hygiene biocidal products
2. Private area and public health area disinfectants and other biocidal products
3. Veterinary hygiene biocidal products
4. Food and feed area disinfectants
5. Drinking water disinfectants

Main Group II **Preservatives**

Product Type

6. In-can preservatives
7. Film preservatives
8. Wood preservatives
9. Fiber, leather, rubber & polymerized material preservatives
10. Masonry preservatives
11. Preservatives for liquid-cooling and processing systems
12. Slimicides
13. Metalworking-fluid preservatives

The names and descriptions of the product types have been updated and the classes have been reduced from 23 in the 98/8 regulation to 22 in the new model. The difference is that preservatives for food and feedstock are no longer under the scope of the Biocides Regulation.

AccuStandard acknowledges the recently adopted regulation, but has chosen to use the classification system described in the Biological Products Directive 98/8/EC (BPD) which divides biocides into 23 product types within four major groupings. This is primarily because the basic tenet of requiring assessment of the active substance for effectiveness and safety for humans and the environment remains the same as in the original directive.

Consequently, the classification system in this catalog divides the biocides into 23 product types within four main groupings. The devised flowchart can be used as a screening tool to quickly assess which category applies to a particular biocide compound.

Biocides e 98/8/EC (BPD) revised 2012

Main Group III Pest control

Product Type

- 14. Rodenticides
- 15. Avicides
- 16. Molluscicides
- 17. Piscicides
- 18. Insecticides, acaricides and products to control other arthropods
- 19. Repellents and attractants

Main Group IV Other biocidal products

Product Type

- 20. Preservatives for food or feedstocks
- 21. Anti-fouling products
- 22. Embalming and taxidermist fluids
- 23. Control of other vertebrates

Due to stability issues these compounds are
NOT AVAILABLE

2-Butanone peroxide
Formaldehyde
Hydrogen chloride
Hydrogen peroxide
Carbon dioxide
Chlorhexidine digluconate
Chlorine
Difethialone
Glyoxal
Sulphur dioxide
Sodium hypochlorite
Sulphuryl difluoride
Sodium dichloroisocyanurate

Biocidal Product Types and their Descriptions as Referred to in Article 2(1)(a) of this Directive

MAIN GROUP I: Disinfectants and general biocidal products

These product types exclude cleaning products that are not intended to have a biocidal effect, including washing liquids, powders and similar products.

Product-type 1: Human hygiene biocidal products

Products in this group are biocidal products used for human hygiene purposes.

Product-type 2: Private and public health areas disinfectants and other biocidal products

Products used for the disinfection of air, surfaces, materials, equipment and furniture which are not used for direct food or feed contact in private, public and industrial areas, including hospitals, as well as products used as algacides.

Usage areas include, inter alia, swimming pools, aquariums, bathing and other waters; air monitoring systems; walls and floors in health and other institutions; chemical toilets, waste water, hospital waste, soil or other substrates (in playgrounds).

Product-type 3: Veterinary hygiene biocidal products

Products in this group are biocidal products used for veterinary hygiene purposes including products used in areas in which animals are housed, kept or transported.

Product-type 4: Food and feed areas disinfectants

Products used for the disinfection of equipment, containers, consumption utensils, surfaces or pipework associated with the production, transport, storage or consumption of food, feed or drink (including drinking water) for humans and animals.

Product-type 5: Drinking water disinfectants

Products used for the disinfection of drinking water (for both humans and animals).



MAIN GROUP II: Preservatives

Product-type 6: In-can preservatives

Products used for the preservation of manufactured products, other than foodstuffs or feedstocks, in containers by the control of microbial deterioration to ensure their shelf life.

Product-type 7: Film preservatives

Products used for the preservation of films or coatings by the control of microbial deterioration in order to protect the initial properties of the surface of materials or objects such as paints, plastics, sealants, wall adhesives, binders, papers, and art works.

Product-type 8: Wood preservatives

Products used for the preservation of wood, from and including the saw-mill stage, or wood products by the control of wood-destroying or wood-disfiguring organisms.

This product type includes both preventive and curative products.

Product-type 9: Fiber, leather, rubber and polymerized materials preservatives

Products used for the preservation of fibrous or polymerized materials, such as leather, rubber or paper or textile products by the control of microbiological deterioration.

Product-type 10: Masonry preservatives

Products used for preservation and remedial treatment of masonry or other construction materials other than wood by the control of microbiological and algal attack.

Product-type 11: Preservatives for liquid-cooling and processing systems

Products used for the preservation of water or other liquids used in cooling and processing systems by the control of harmful organisms such as microbes, algae and mussels.

Products used for the preservation of drinking water are not included in this product type.

Product-type 12: Slimicides

Products used for the prevention or control of slime growth on materials, equipment and structures used in industrial processes, e.g., on wood and paper pulp, porous sand strata in oil extraction.

Product-type 13: Metalworking-fluid preservatives

Products used for the preservation of metalworking-fluids by the control of microbial deterioration.



MAIN GROUP III: Pest control

Product-type 14: Rodenticides

Products used for the control of mice, rats or other rodents.

Product-type 15: Avicides

Products used for the control of birds.

Product-type 16: Molluscicides

Products used for the control of molluscs.

Product-type 17: Piscicides

Products used for the control of fish; these products exclude products for the treatment of fish diseases.

Product-type 18: Insecticides, acaricides and products to control other arthropods

Products used for the control of arthropods (e.g. insects, arachnids and crustaceans).

Product-type 19: Repellents and attractants

Products used to control harmful organisms (invertebrates such as fleas, vertebrates such as birds), by repelling or attracting, including those that are used for human or veterinary hygiene either directly or indirectly.



MAIN GROUP IV: Other biocidal products

Product-type 20: Preservatives for food or feedstocks

Products used for the preservation of food or feedstocks by the control of harmful organisms.

Product-type 21: Anti-fouling products

Products used to control the growth and settlement of fouling organisms (microbes and higher forms of plant or animal species) on vessels, aquaculture equipment or other structures used in water.

Product-type 22: Embalming and taxidermist fluids

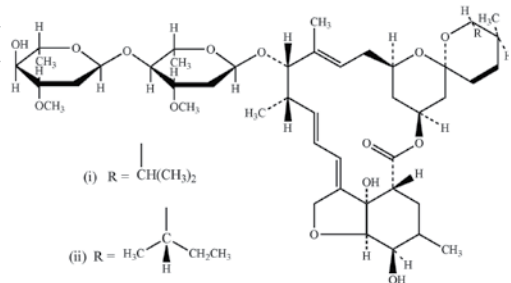
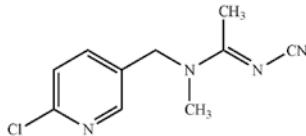
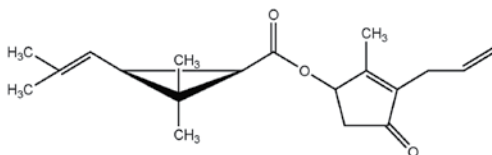
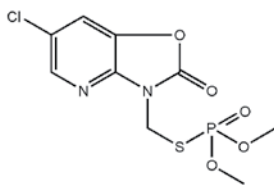
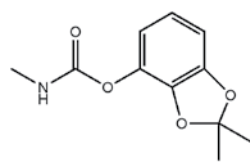
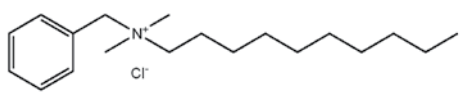
Products used for the disinfection and preservation of human or animal corpses, or parts thereof.

Product-type 23: Control of other vertebrates

Products used for the control of vermin.





Abamectin			GROUP	USES
BIOC-236N-10MG	10 mg			
CAS 71751-41-2		 (i) $R = CH(CH_3)_2$ (ii) $R = H_3C - CH - CH_2CH_3$	III	18
Acetamiprid			GROUP	USES
BIOC-237N-10MG	10 mg			
CAS 135410-20-7	MF $C_{10}H_{11}ClN_4$	MW 222.67		III
				18
Allethrin			GROUP	USES
BIOC-239N-10MG	10 mg			
CAS 584-79-2	MF $C_{19}H_{26}O_3$	MW 302.41		III
				18
Ammonium bromide			GROUP	USES
BIOC-095N-10MG	10 mg			
CAS 1212-97-9	MF BrH_4N	MW 97.94		I, II
		NH_4Br		2, 4, 6, 7, 9, 11, 12
Ammonium sulfate			GROUP	USES
BIOC-168N	100 mg			
CAS 7783-20-2	MF $H_8N_2O_4S$	MW 132.14		II
		$(NH_4)_2SO_4$		11, 12
Azamethiphos			GROUP	USES
BIOC-215N-10MG	10 mg			
CAS 35575-96-3	MF $C_9H_{10}ClN_2O_5PS$	MW 324.68		III
				18
Bendiocarb			GROUP	USES
BIOC-211N-10MG	10 mg			
CAS 22781-23-3	MF $C_{11}H_{13}NO_4$	MW 223.23		III
				18
Benzalkonium chloride (Tech)			GROUP	USES
BIOC-052N	100 mg			
CAS 63449-41-2	MF $C_{19}H_{34}ClN$	MW 311.93		I, II, III, IV
				1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 17, 22

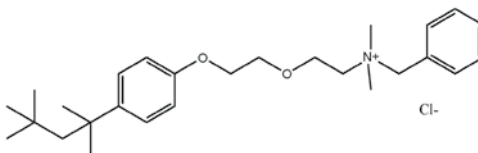


Biocides

Benzethonium chloride

BIOC-018N-25MG	25 mg	

CAS 121-54-0 MF $C_{27}H_{42}ClNO_2$ MW 448.08

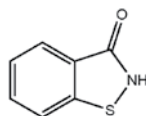


GROUP	I
USES	1

1,2-Benzisothiazol-3(2H)-one

BIOC-082S-W	19.3% wt. in Water	1 mL

CAS 2634-33-5 MF C_7H_5NOS MW 151.19

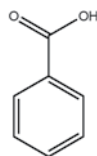


GROUP	I, II, IV
USES	2, 6, 7, 9, 10, 11, 12, 13, 22

Benzoic acid

BIOC-006N-25MG	25 mg	

CAS 65-85-0 MF $C_7H_6O_2$ MW 122.12

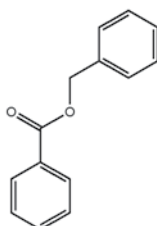


GROUP	I, II, IV
USES	1, 2, 3, 4, 6, 11, 20

Benzyl benzoate

BIOC-067N	100 mg	

CAS 120-51-4 MF $C_{14}H_{12}O_2$ MW 212.24

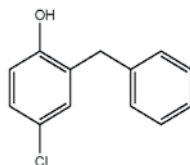


GROUP	I, III
USES	2, 18

2-Benzyl-4-chlorophenol

BIOC-017N	100 mg	

CAS 120-32-1 MF $C_{13}H_{11}ClO$ MW 156.61

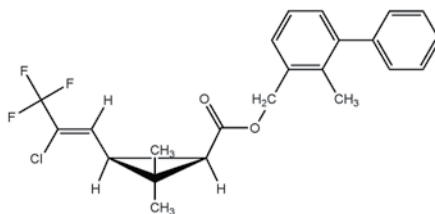


GROUP	I, II
USES	1, 2, 3, 4, 6

Bifenthrin

BIOC-161N-10MG	10 mg	

CAS 82657-04-3 MF $C_{23}H_{22}ClF_3O_2$ MW 422.87

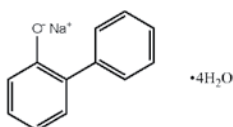


GROUP	II, III
USES	8, 18

2-Biphenylol sodium salt tetrahydrate

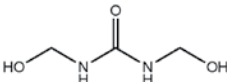
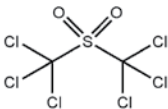
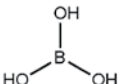
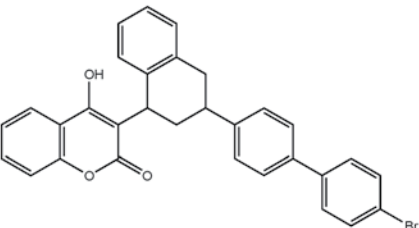
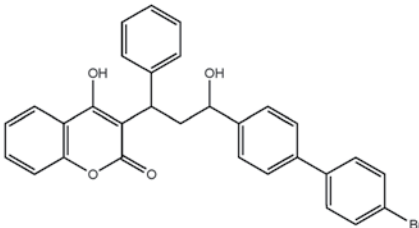
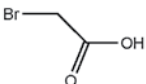
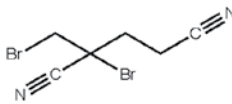
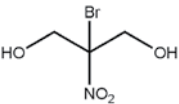
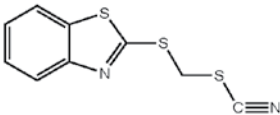
BIOC-022N	100 mg	

CAS 132-27-4 MF $C_{12}H_{17}NaO_5$ MW 264.25



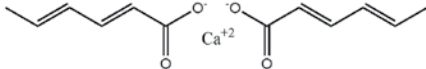
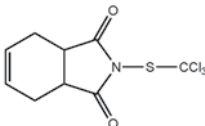
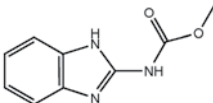
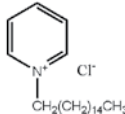
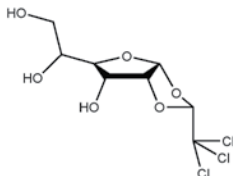
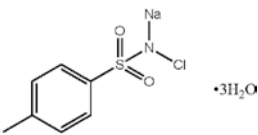
GROUP	I, II
USES	1, 2, 3, 4, 6, 7, 9, 10, 13



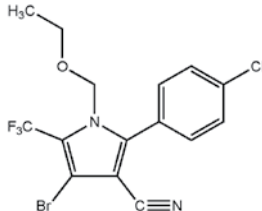
N,N'-Bis(hydroxymethyl)urea (MFG)				GROUP I, II USES 2, 6, 9, 11, 12, 13
BIOC-074N	100 mg			
CAS 140-95-4	MF C ₃ H ₈ N ₂ O ₃	MW 120.11		
Bis(trichloromethyl) sulphone				GROUP II, IV USES 6, 9, 10, 11, 12, 22
BIOC-128N-10MG	10 mg			
CAS 3064-70-8	MF C ₂ Cl ₆ O ₂ S	MW 300.80		
Boric acid				GROUP I, II, III, IV USES 1, 2, 3, 6, 7, 8, 9, 10, 11, 12, 13, 18, 22
BIOC-044N-1G	1 gram			
CAS 10043-35-3	MF BH ₃ O ₃	MW 142.98		
Brodifacoum				GROUP III USES 14
BIOC-180N-10MG	10 mg			
CAS 56073-10-0	MF C ₃₁ H ₂₃ BrO ₃	MW 523.42		
Bromadiolone				GROUP III USES 14
BIOC-178N-10MG	10 mg			
CAS 28772-56-7	MF C ₃₀ H ₂₃ BrO ₄	MW 527.41		
Bromoacetic acid				GROUP I USES 4
BIOC-114N	100 mg			
CAS 79-08-3	MF C ₂ H ₃ BrO ₂	MW 138.95		
2-Bromo-2-(bromomethyl)pentanedinitrile				GROUP II USES 6, 7, 9, 10, 11, 13
BIOC-136N	100 mg			
CAS 35691-65-7	MF C ₆ H ₆ Br ₂ N ₂	MW 265.93		
2-Bromo-2-nitropropane-1,3-diol				GROUP I, II, IV USES 1, 2, 3, 4, 6, 7, 9, 10, 11, 12, 13, 22
BIOC-002N-25MG	25 mg			
CAS 52-51-7	MF C ₂₇ H ₄₂ ClNO ₂	MW 448.08		
Busan (TCMTB)				GROUP I, II USES 2, 4, 6, 7, 9, 10, 11, 12, 13
BIOC-097S-CN	100 µg/mL in Acetonitrile	1 mL		
CAS 21564-17-0	MF C ₉ H ₆ N ₂ S ₃	MW 238.36		

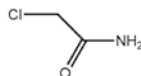


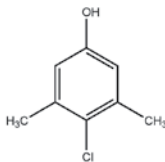
Biocides

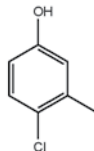
Calcium hydroxide			
BIOC-078N	100 mg	Ca(OH)₂	GROUP I
			USES 2, 3
CAS 1305-62-0 MF CaH ₂ O ₂ MW 74.09			
Calcium hypochlorite			
BIOC-041N	100 mg	Ca(OCl)₂	GROUP I, II
			USES 1, 2, 3, 4, 5, 11
CAS 7778-54-3 MF CaCl ₂ O ₂ MW 142.98			
Calcium oxide			
BIOC-079N	100 mg	CaO	GROUP I
			USES 2, 3
CAS 1305-78-8 MF CaO MW 56.08			
Calcium sorbate			
BIOC-032N	100 mg		GROUP I, II, IV
			USES 1, 3, 6, 7, 9, 20
CAS 7492-55-9 MF C ₁₂ H ₁₄ CaO ₄ MW 315.58			
Captan			
BIOC-122N-10MG	10 mg		GROUP II
			USES 6, 7, 9, 10
CAS 133-06-2 MF C ₉ H ₈ Cl ₃ NO ₂ S MW 300.59			
Carbendazim			
BIOC-133N-10MG	10 mg		GROUP II
			USES 6, 7, 9, 10, 11, 12, 13
CAS 10605-21-7 MF C ₉ H ₉ N ₃ O ₂ MW 191.19			
Cetylpyridinium chloride			
BIOC-020N	100 mg		GROUP I, II, IV
			USES 1, 2, 3, 4, 5, 6, 7, 9, 20
CAS 123-03-5 MF C ₂₁ H ₃₈ ClN MW 339.99			
Chloralose			
BIOC-177N-10MG	10 mg		GROUP III, IV
			USES 14, 15, 23
CAS 15879-93-3 MF C ₈ H ₁₁ Cl ₃ O ₆ MW 309.53			
Chloramine T trihydrate			
BIOC-021N	100 mg		GROUP I, II
			USES 1, 2, 3, 4, 5, 6, 9, 10, 11
CAS 7080-50-4 MF C ₇ H ₁₃ ClNNaO ₅ S • 3H ₂ O MW 281.69			

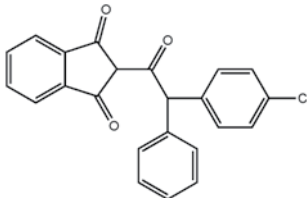


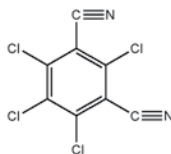
Chlorfenapyr				GROUP	II, III
BIOC-143N-10MG	10 mg			USES	6, 7, 8, 9, 10, 12, 13, 18
CAS 122453-73-0 MF C ₁₅ H ₁₁ BrClF ₃ N ₂ O MW 407.61					

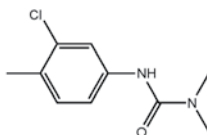
Chloroacetamide				GROUP	I, II
BIOC-109N	100 mg			USES	3, 6, 7, 9, 10, 11, 13
CAS 79-07-2 MF C ₂ H ₄ ClNO MW 93.51					

4-Chloro-3,5-dimethylphenol				GROUP	I, II
BIOC-012N-25MG	25 mg			USES	1, 2, 3, 4, 5, 6
CAS 88-04-0 MF C ₈ H ₉ ClO MW 156.61					

4-Chloro-3-methylphenol				GROUP	I, II
BIOC-003N-25MG	25 mg			USES	1, 2, 3, 4, 6, 9, 10, 13
CAS 59-50-7 MF C ₇ H ₇ ClO MW 142.58					

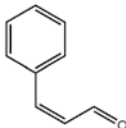
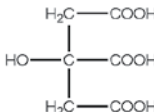
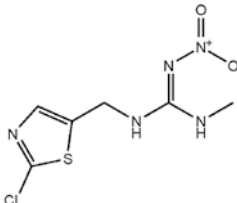
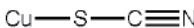
Chlorophacinone				GROUP	III
BIOC-175N-10MG	10 mg			USES	14
CAS 3691-35-8 MF C ₂₃ H ₁₅ ClO ₃ MW 374.82					

Chlorothalonil				GROUP	II
BIOC-126N-10MG	10 mg			USES	6, 7, 9, 10
CAS 1897-45-6 MF C ₈ Cl ₄ N ₂ MW 265.91					

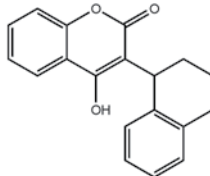
Chlorotoluron				GROUP	II
BIOC-134N-10MG	10 mg			USES	6, 7, 9, 10, 11, 12, 13
CAS 15545-48-9 MF C ₁₀ H ₁₃ ClN ₂ O MW 212.68					



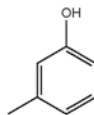
Biocides

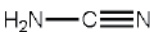
Cinnamal					
BIOC-062N	100 mg			GROUP	I
				USES	2
CAS 104-55-2 MF C ₉ H ₈ O MW 132.16					
Citric acid					
BIOC-010N-25MG	25 mg			GROUP	I
				USES	1, 2, 3
CAS 77-92-9 MF C ₆ H ₈ O ₇ MW 192.12					
Clothianidin					
BIOC-112N-10MG	10 mg			GROUP	I, II, III
				USES	3, 8, 18
CAS 210880-92-5 MF C ₆ H ₈ ClN ₅ O ₂ S MW 249.68					
Copper					
BIOC-089S	1000 µg/mL in	100 mL	Cu	GROUP	I, II, IV
	tr. Nitric acid			USES	2, 4, 5, 11, 21
CAS 7440-50-8 MF Cu MW 63.55					
Copper (II) carbonate basic					
BIOC-154N	100 mg		CuCO ₃ • Cu(OH) ₂	GROUP	II
				USES	8
CAS 12069-69-1 MF Cu ₂ CO ₃ H ₂ MW 221.12					
Copper dihydroxide					
BIOC-155N	100 mg		Cu(OH) ₂	GROUP	II
				USES	8
CAS 20427-59-2 MF Cu ₂ H ₂ O ₂ MW 97.56					
Copper (I) oxide					
BIOC-151N	100 mg		Cu ₂ O	GROUP	II
				USES	8
CAS 1317-39-1 MF Cu ₂ O MW 143.09					
Copper (II) oxide					
BIOC-203N	100 mg		CuO	GROUP	IV
				USES	21
CAS 1317-38-0 MF CuO MW 79.55					
Copper (II) sulfate					
BIOC-039N-1G	1 gram		CuSO ₄	GROUP	I
				USES	1, 2, 4
CAS 7758-98-7 MF CuSO ₄ MW 159.61					
Copper thiocyanate					
BIOC-202N	100 mg			GROUP	III, IV
				USES	19, 21
CAS 1111-67-7 MF CuSCN MW 121.63					

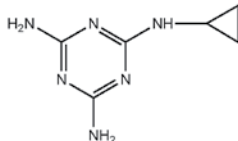


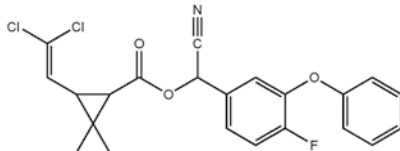
Coumatetralyl				GROUP	III
BIOC-176N-10MG	10 mg			USES	14
CAS 5836-29-3 MF C ₁₉ H ₁₆ O ₃ MW 292.33					

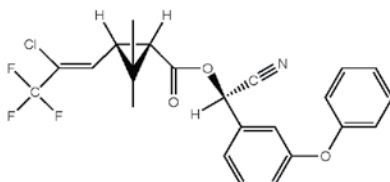
Creosote from beechwood tar			Product is a mixtue of many chemicals created by burning of beech woods	GROUP	II
BIOC-153N	100 mg			USES	8
CAS 8021-39-4					

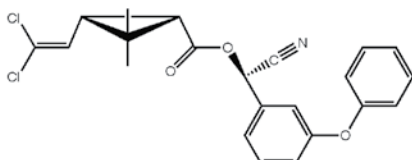
m-Cresol				GROUP	I
BIOC-064N	100 mg			USES	2, 3
CAS 108-39-4 MF C ₇ H ₈ O MW 108.14					

Cyanamide				GROUP	I, III
BIOC-110N	100 mg			USES	3, 18
CAS 420-04-2 MF CH ₂ N ₂ MW 42.04					

N-Cyclopropyl-1,3,5-triazine-2,4,6-triamine				GROUP	III
BIOC-221N-10MG	10 mg			USES	18
CAS 66215-27-8 MF C ₆ H ₁₀ O ₆ MW 166.18					

Cyfluthrin				GROUP	III
BIOC-222N-10MG	10 mg			USES	18
CAS 68359-37-5 MF C ₂₂ H ₁₈ Cl ₂ FNO ₃ MW 434.29					

L-Cyhalothrin				GROUP	III
BIOC-227N-10MG	10 mg			USES	18
CAS 91465-08-6 MF C ₂₃ H ₁₉ ClF ₃ NO ₃ MW 449.85					

a-Cypermethrin				GROUP	II, III
BIOC-142N-10MG	10 mg			USES	6, 9, 18
CAS 67375-30-8 MF C ₂₂ H ₁₉ Cl ₂ NO ₃ MW 416.30					

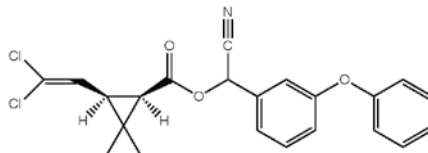


Biocides

Cypermethrin

BIOC-156N-10MG	10 mg	

CAS 52315-07-8 MF $C_{22}H_{19}Cl_2NO_3$ MW 416.30

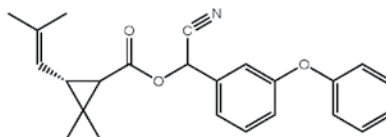


GROUP	II, III
USES	8, 9, 18

Cyphenothrin

BIOC-216N-10MG	10 mg	

CAS 39515-40-7 MF $C_{24}H_{25}NO_3$ MW 375.46

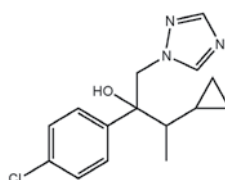


GROUP	III
USES	18

Cyproconazole

BIOC-162S	100 µg/mL in Methanol	1 mL

CAS 94361-06-5 MF $C_{15}H_{18}ClN_3O$ MW 291.78

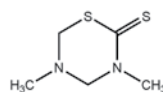


GROUP	II
USES	8

Dazomet

BIOC-125N-10MG	10 mg	

CAS 533-74-4 MF $C_5H_{10}N_2S_2$ MW 162.28

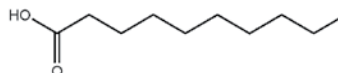


GROUP	I, II
USES	6, 7, 8, 9, 10, 11, 12

Decanoic acid

BIOC-116N *	100 mg	

CAS 334-48-5 MF $C_{10}H_{20}O_2$ MW 172.26

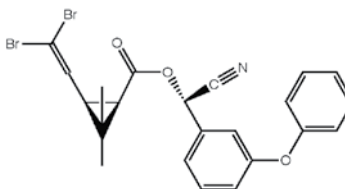


GROUP	I, III
USES	4, 18, 19

Deltamethrin

BIOC-218N-10MG	10 mg	

CAS 52918-63-5 MF $C_{22}H_{19}Br_2NO_3$ MW 505.20

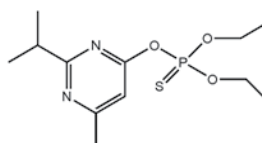


GROUP	III
USES	18

Diazinon

BIOC-201N-10MG	10 mg	

CAS 333-41-5 MF $C_{12}H_{21}N_2O_3PS$ MW 304.35

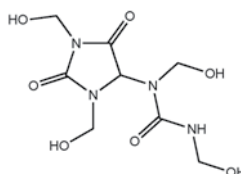


GROUP	III
USES	18

Diazolidinyl urea

BIOC-140N	100 mg	

CAS 78491-02-8 MF $C_8H_{14}N_4O_7$ MW 278.22



GROUP	II
USES	6, 7

* To delay premature breakdown of thermally labile products in transit a ColdPAK is required.



Diboron trioxide				
BIOC-150N	100 mg	B₂O₃	GROUP	II
			USES	8
CAS 1303-86-2 MF B ₂ O ₃ MW 69.62				
2,2-Dibromo-2-cyanoacetamide				
BIOC-046N	100 mg	N#CC(Br)(Br)C(=O)N	GROUP	I, II
			USES	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13
CAS 10222-01-2 MF C ₃ H ₂ Br ₂ N ₂ O MW 241.87				
1,3-Dibromo-5,5-dimethylhydantoin				
BIOC-057N	100 mg	CN1C(=O)N(Br)C(=O)N1C	GROUP	I, II
			USES	2, 11, 12
CAS 77-48-5 MF C ₅ H ₆ Br ₂ N ₂ O ₂ MW 285.92				
Dichlofluanid				
BIOC-146N-10MG	10 mg	CN(C)S(=O)(=O)N(c1ccccc1)SC(F)(Cl)Cl	GROUP	II, IV
			USES	7, 8, 10, 21
CAS 1085-98-9 MF C ₉ H ₁₁ Cl ₂ FN ₂ O ₂ S ₂ MW 333.23				
2,4-Dichlorobenzyl alcohol				
BIOC-081N	100 mg	OCCc1ccc(Cl)cc1Cl	GROUP	I, II
			USES	2, 6, 7, 9, 10, 12, 13
CAS 1777-82-8 MF C ₇ H ₆ Cl ₂ O MW 177.03				
1,3-Dichloro-5,5-dimethylhydantoin				
BIOC-066N-1G	1 gram	CN1C(=O)N(Cl)C(=O)N1C	GROUP	I, II
			USES	2, 11, 12
CAS 118-52-5 MF C ₅ H ₆ Cl ₂ H ₂ O ₂ MW 197.02				
Dichlorophen				
BIOC-061N-10MG	10 mg	Oc1ccc(Cl)cc1Cc2ccc(Cl)cc2O	GROUP	I, II
			USES	2, 3, 4, 6, 7, 9, 10, 11, 12, 13
CAS 97-23-4 MF C ₁₃ H ₁₀ Cl ₂ O ₂ MW 269.12				

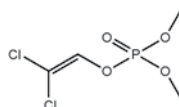


Biocides

Dichlorvos

BIOC-185N-10MG	10 mg	

CAS 62-73-7 MF $C_4H_7Cl_2O_4P$ MW 220.98

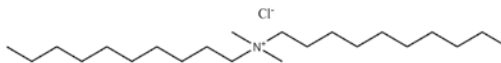


GROUP	III
USES	18

Didecyldimethylammonium chloride

BIOC-030N-10MG	10 mg	

CAS 7173-51-5 MF $C_{22}H_{46}ClN$ MW 362.08

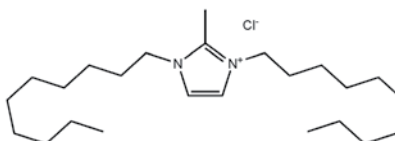


GROUP	I, II
USES	1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13

1,3-Didecyl-2-methyl-1H-imidazolium chloride

BIOC-103N	100 mg	

CAS 70862-65-6 MF $C_{24}H_{47}ClN_2$ MW 399.10

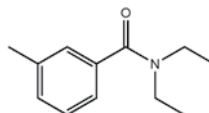


GROUP	I, II
USES	2, 3, 4, 6, 7, 10, 11, 12, 13

N,N-Diethyl-m-toluamide (DEET, OFF)

BIOC-196N-10MG	10 mg	

CAS 134-62-3 MF $C_{12}H_{17}NO$ MW 191.27

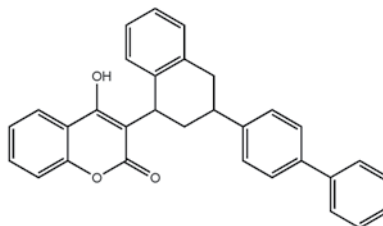


GROUP	III, IV
USES	19, 22

Difenacoum

BIOC-179S-D	100 µg/mL in Dichloromethane	1 mL

CAS 56073-07-5 MF $C_{31}H_{24}O_3$ MW 444.52

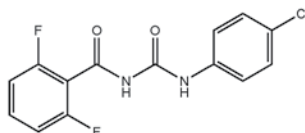


GROUP	III
USES	14

Diflubenzuron

BIOC-214N-10MG	10 mg	

CAS 35367-38-5 MF $C_{14}H_9ClF_2N_2O_2$ MW 310.68

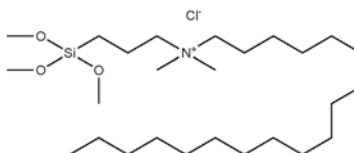


GROUP	III
USES	18

Dimethyloctadecyl[3-(trimethoxysilyl)propyl ammonium chloride]

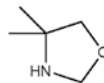
BIOC-098N	100 mg	

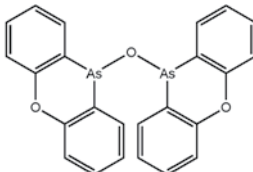
CAS 27668-52-6 MF $C_{26}H_{58}ClNO_3Si_2$ MW 496.28



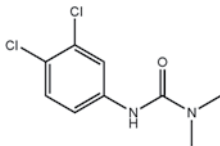
GROUP	I, II
USES	2, 7, 9, 10



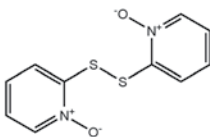
4,4-Dimethyloxazolidine		
BIOC-137N-10MG	10 mg	
CAS 51200-87-4 MF C ₅ H ₁₁ NO MW 101.15		
		
		GROUP II
		USES 6, 11, 12, 13

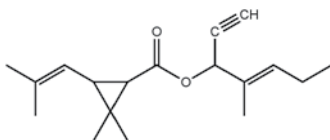
Diphenoxarsin-10-yl oxide		
BIOC-163N	100 mg	
CAS 58-36-6 MF C ₂₄ H ₁₆ As ₂ O ₃ MW 502.23		
		
		GROUP II
		USES 9

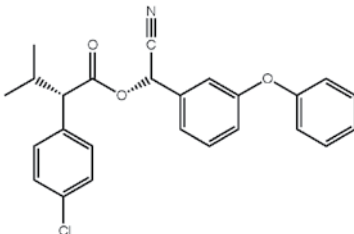
Dipotassium disulfite		
BIOC-047N-1G	1 gram	
CAS 16731-55-8 MF K ₂ O ₅ S ₂ MW 222.32		
		K ₂ S ₂ O ₅
		GROUP I, II, IV
		USES 1, 2, 4, 5, 6, 9, 11, 12, 13, 20, 22

Diuron (Karmex)		
BIOC-124N-10MG	10 mg	
CAS 330-54-1 MF C ₉ H ₁₀ Cl ₂ N ₂ O MW 233.09		
		
		GROUP II
		USES 6, 7, 10

Disilver oxide		
BIOC-169N	100 mg	
CAS 20667-12-3 MF Ag ₂ O MW 231.74		
		Ag ₂ O
		GROUP II
		USES 11

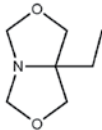
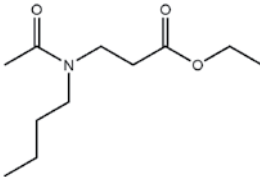
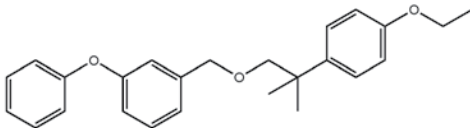
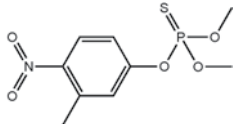
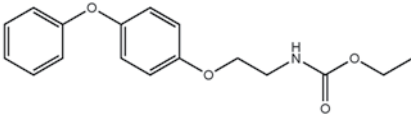
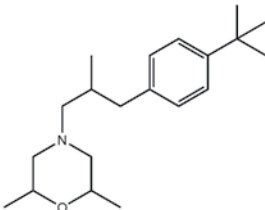
2,2'-Dithiobis(pyridine-N-oxide)		
BIOC-165N-10MG	10 mg	
CAS 3696-28-4 MF C ₁₀ H ₈ N ₂ O ₂ S ₂ MW 252.31		
		
		GROUP II
		USES 9

Empenthrin		
BIOC-219N-10MG	10 mg	
CAS 54406-48-3 MF C ₁₈ H ₂₆ O ₂ MW 274.40		
		
		GROUP III
		USES 18

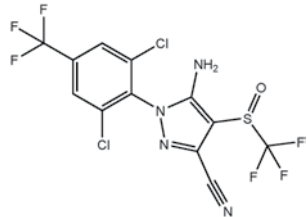
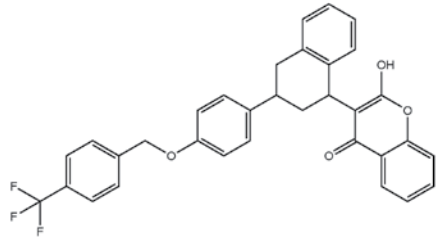
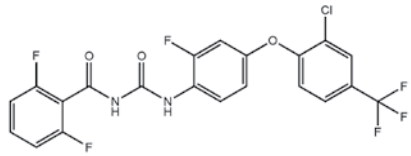
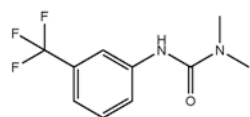
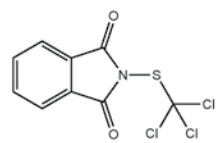
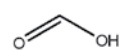
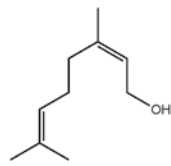
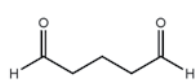
Esfenvalerate		
BIOC-235N-10MG	10 mg	
CAS 66230-04-4 MF C ₂₅ H ₂₂ ClNO ₃ MW 419.90		
		
		GROUP III
		USES 18



Biocides

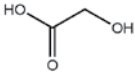
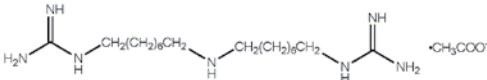
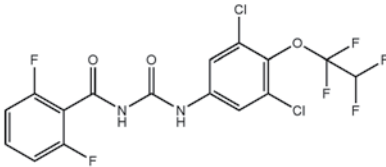
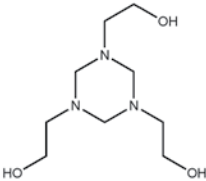
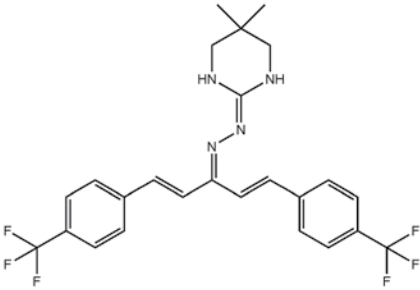
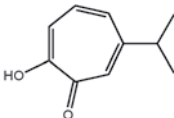
Ethanol				GROUP	I
BIOC-004N-25MG	25 mg				
CAS 64-17-5 MF C ₂ H ₆ O MW 46.07				USES	1, 2, 3, 4
5-Ethyl-1-aza-3,7-dioxabicyclo[3,3,0]octane				GROUP	II
BIOC-132N	100 mg				
CAS 7747-35-5 MF C ₇ H ₁₃ NO ₂ MW 143.18				USES	6, 11, 12, 13
Ethyl butylacetylaminopropionate				GROUP	III
BIOC-217S	100 µg/mL in Methanol	1 mL			
CAS 52304-36-6 MF C ₁₁ H ₂₁ NO ₃ MW 215.29				USES	18
Ethylene oxide				GROUP	I, IV
BIOC-056S-TP	5 mg/mL in Isooctane	1 mL			
CAS 75-21-8 MF C ₂ H ₄ O MW 44.05				USES	2, 20
Etofenprox				GROUP	I, II, III
BIOC-106N-10MG	10 mg				
CAS 80844-07-1 MF C ₂₅ H ₂₈ O ₃ MW 376.49				USES	2, 3, 8, 18
Fenitrothion				GROUP	III
BIOC-191S	100 µg/mL in Methanol	1 mL			
CAS 122-14-5 MF C ₉ H ₁₂ NO ₅ PS MW 277.24				USES	18
Fenoxycarb				GROUP	II
BIOC-157N-10MG	10 mg				
CAS 72490-01-8 MF C ₁₇ H ₁₉ NO ₄ MW 301.34				USES	8
Fenpropimorph				GROUP	II
BIOC-139N-10MG	10 mg				
CAS 67564-91-4 MF C ₂₀ H ₃₃ NO MW 303.48				USES	6, 7, 8, 9, 10, 12, 13



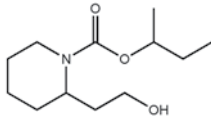
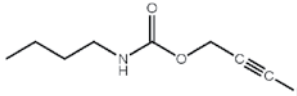
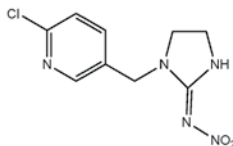
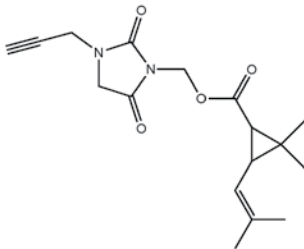
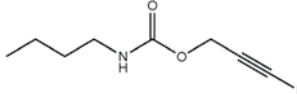
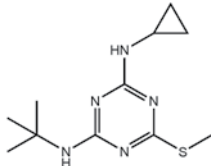
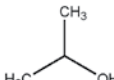
Fipronil				GROUP	III
BIOC-229N-10MG	10 mg			USES	18
CAS 120068-37-3 MF C ₁₂ H ₄ Cl ₂ F ₆ N ₄ OS MW 437.15					
Flocoumafen				GROUP	III
BIOC-181S	100 µg/mL in Methanol	1 mL		USES	14
CAS 90035-08-8 MF C ₃₃ H ₂₅ F ₃ O ₄ MW 542.54					
Flufenoxuron				GROUP	II, III
BIOC-158N-10MG	10 mg			USES	8, 18
CAS 101463-69-8 MF C ₂₁ H ₁₁ ClF ₆ N ₂ O ₃ MW 488.77					
Fluometuron				GROUP	II
BIOC-127N-10MG	10 mg			USES	6, 7, 9, 10, 11, 12, 13
CAS 2164-17-2 MF C ₁₀ H ₁₁ F ₃ N ₂ O MW 232.20					
Folpet				GROUP	II
BIOC-123N-10MG	10 mg			USES	6, 7, 9, 10
CAS 133-07-3 MF C ₉ H ₄ Cl ₃ NO ₂ S MW 296.56					
Formic acid				GROUP	I, II
BIOC-005N-25MG	25 mg			USES	1, 2, 3, 4, 5, 6, 9, 11, 12, 13
CAS 64-18-6 MF CH ₂ O ₂ MW 46.03					
Geraniol				GROUP	III
BIOC-188N	100 mg			USES	18, 19
CAS 106-24-1 MF C ₁₀ H ₁₈ O MW 154.25					
Gluteraldehyde				GROUP	I, II, IV
BIOC-016S-W	50% wt. in Water	1 mL		USES	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 22
CAS 111-30-8 MF C ₅ H ₈ O ₂ MW 100.12					



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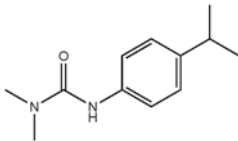
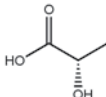
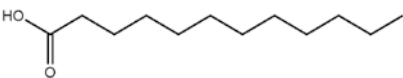
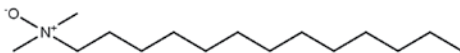
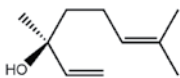
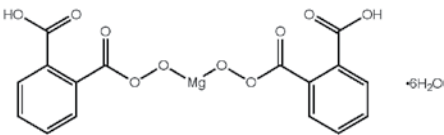
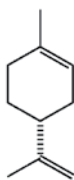
Glycolic acid				GROUP	I, II
BIOC-058N	100 mg				
				USES	2, 3, 4, 12
CAS 79-14-1 MF C ₂ H ₄ O ₃ MW 76.05					
Guazatine acetate (Tech)				GROUP	I
BIOC-108N-10MG	10 mg				
				USES	2
CAS 115044-19-4 MF C ₂₄ H ₅₃ N ₇ O ₆ MW 535.72					
Hexaflumuron				GROUP	III
BIOC-224N-10MG	10 mg				
				USES	18
CAS 86479-06-3 MF C ₁₆ H ₈ Cl ₂ F ₆ N ₂ O ₃ MW 461.14					
Hexahydro-1,3,5-tris(hydroxyethyl)triazine				GROUP	I, II
BIOC-086N	100 mg				
				USES	2, 3, 4, 6, 9, 11, 12, 13
CAS 4719-04-4 MF C ₉ H ₂₁ N ₃ O ₃ MW 219.28					
Hydamethylnon				GROUP	III
BIOC-226S	100 µg/mL in Methanol	1 mL			
				USES	18
CAS 67485-29-4 MF C ₂₅ H ₂₄ F ₆ N ₄ MW 494.48					
2-Hydroxy-4-isopropyl-2,4,6-cycloheptatrien-1-one				GROUP	II
BIOC-167N	100 mg				
				USES	10
CAS 499-44-5 MF C ₁₀ H ₁₂ O ₂ MW 164.20					



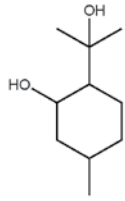
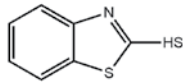
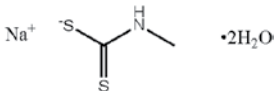
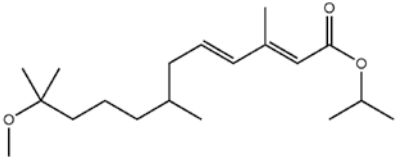
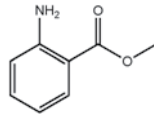
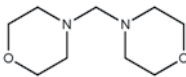
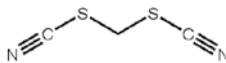
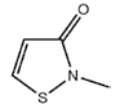
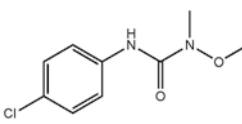
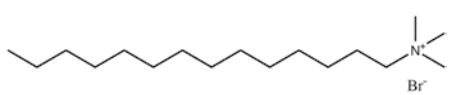
Icaridin				GROUP	III
BIOC-228S-CN	100 µg/mL in Acetonitrile	1 mL		USES	19
CAS 119515-38-7 MF C ₁₂ H ₂₃ NO ₃ MW 229.32					
Imazalil				GROUP	I, II, IV
BIOC-099N-10MG	10 mg			USES	2, 3, 4, 13, 20
CAS 35554-44-0 MF C ₁₄ H ₁₄ Cl ₂ N ₂ O MW 297.18					
Imidacloprid				GROUP	III
BIOC-230N-10MG	10 mg			USES	18
CAS 138261-41-3 MF C ₉ H ₁₀ ClN ₅ O ₂ MW 255.66					
Imiprothrin				GROUP	III
BIOC-231S-CN	100 µg/mL in Acetonitrile	1 mL		USES	18
CAS 72963-72-5 MF C ₁₇ H ₂₂ N ₂ O ₄ MW 318.37					
Iodine				GROUP	I, II, IV
BIOC-033N	100 mg			USES	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 22
CAS 7553-56-2 MF I ₂ MW 253.81					
3-Iodo-2-propynyl butylcarbamate				GROUP	II
BIOC-138N	100 mg			USES	6, 7, 8, 9, 10, 11, 13
CAS 5546-53-6 MF C ₈ H ₁₂ INO ₂ MW 281.09					
Irgarol				GROUP	II
BIOC-148N-10MG	10 mg			USES	7, 9, 10
CAS 28159-98-0 MF C ₁₁ H ₁₉ N ₅ S MW 253.37					
Isopropanol				GROUP	I, II
BIOC-007N-25MG	25 mg			USES	1, 2, 3, 4, 5, 6, 9, 10, 11, 12
CAS 67-63-0 MF C ₃ H ₈ O MW 60.10					



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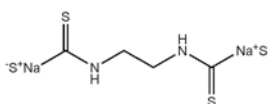
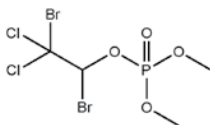
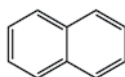
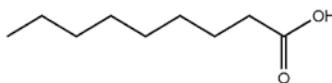
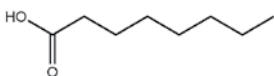
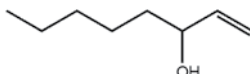
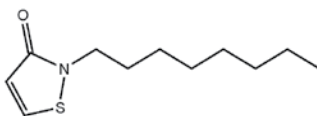
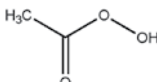
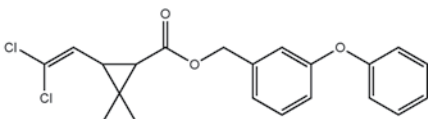
Isoproturon			
BIOC-135N-10MG	10 mg		GROUP II
			USES 6, 7, 9, 10, 11, 12, 13
CAS 34123-59-6 MF C ₁₂ H ₁₈ N ₂ O MW 206.28			
L-(+)-Lactic acid			
BIOC-059N-50MG	50 mg		GROUP I, II, IV
			USES 2, 3, 4, 6, 20
CAS 79-33-4 MF C ₃ H ₆ O ₃ MW 90.08			
Lauric acid			
BIOC-199N	100 mg		GROUP III
			USES 19
CAS 143-07-7 MF C ₁₂ H ₂₄ O ₂ MW 200.32			
Lauryl dimethylamine oxide			
BIOC-053N	100 mg		GROUP I
			USES 1, 2
CAS 70592-80-2 MF C ₁₅ H ₃₃ NO MW 243.43			
Lignin (Alkaline)			
BIOC-043N-1G	1 gram	Cross-linked racemic macromolecule Molecular mass in excess of 10,000	GROUP I, II
			USES 1, 2, 3, 4, 6, 7, 9, 10, 11, 12, 13
CAS 9005-53-2			
Linalool			
BIOC-186N	100 mg		GROUP III
			USES 19
CAS 78-70-6 MF C ₁₀ H ₁₈ O MW 154.25			
Magnesium bis(monoperoxyphthalate) hexahydrate			
BIOC-104N	100 mg		GROUP I
			USES 2, 3, 4
CAS 84665-66-7 MF C ₁₆ H ₂₂ MgO ₁₆ MW 494.64			
Margosa extract			
BIOC-223N	100 mg	Plant extract consisting mainly of the limonoids azadirachtin A, azadirachtin B, azadirachtin H, Desacetyl-Nimbin, Desacetyl-Salannin, Nimbin, and Salannin together with co-extracted fatty acids and a small amount of water	GROUP III
			USES 18, 19
CAS 84696-25-3			
(R)-p-Mentha-1,8-diene			
BIOC-170N	100 mg		GROUP II
			USES 12
CAS 5989-27-5 MF C ₁₀ H ₁₆ MW 136.23			



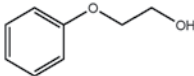
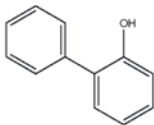
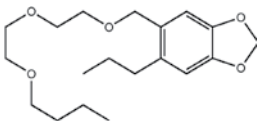
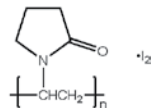
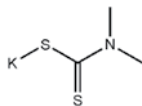
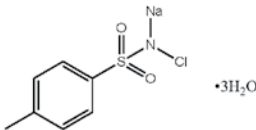
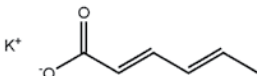
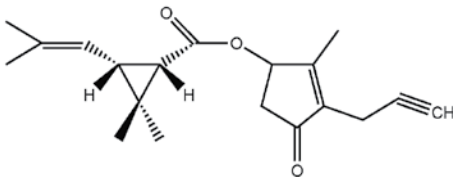
(+) -cis-p-Menthane-3,8-diol				
BIOC-050S-CN	100 µg/mL in Acetonitrile	1 mL		GROUP I, III
				USES 1, 2, 19
CAS 42822-86-6 MF C ₁₀ H ₂₀ O ₂ MW 172.27				
2-Mercaptobenzothiazole				
BIOC-077N-10MG	10 mg			GROUP I, II
				USES 2, 7, 9, 11, 12, 13
CAS 149-30-4 MF C ₇ H ₅ NS ₂ MW 167.25				
Metam-sodium dihydrate				
BIOC-073N-10MG	10 mg			GROUP I, II, IV
				USES 2, 4, 6, 9, 11, 12, 13, 20
CAS 6734-80-1 MF C ₂ H ₈ NNaO ₂ S ₂ MW 165.21				
S-Methoprene				
BIOC-234S	100 µg/mL in Methanol	1 mL		GROUP III
				USES 18
CAS 65733-16-6 MF C ₁₉ H ₃₄ O ₃ MW 310.47				
Methyl anthranilate				
BIOC-195N	100 mg			GROUP III
				USES 19
CAS 134-20-3 MF C ₈ H ₉ NO ₂ MW 151.16				
N,N'-Methylenebismorpholine				
BIOC-129S	100 µg/mL in Methanol	1 mL		GROUP II
				USES 6, 9, 11, 13
CAS 5625-90-1 MF C ₉ H ₁₈ N ₂ O ₂ MW 186.25				
Methylene dithiocyanate				
BIOC-130N	100 mg			GROUP II, IV
				USES 6, 7, 9, 10, 11, 12, 13, 22
CAS 6317-18-6 MF C ₃ H ₂ N ₂ S ₂ MW 130.19				
2-Methyl-2H-isothiazol-3-one				
BIOC-083N-10MG	10 mg			GROUP I, II, IV
				USES 2, 4, 6, 7, 9, 10, 11, 12, 13, 22
CAS 2682-20-4 MF C ₄ H ₅ NOS MW 115.15				
Monolinuron				
BIOC-080N-10MG	10 mg			GROUP I
				USES 2
CAS 1746-81-2 MF C ₉ H ₁₁ ClN ₂ O ₂ MW 214.65				
Myristyltrimethylammonium bromide				
BIOC-024N	100 mg			GROUP I
				USES 1
CAS 1119-97-7 MF C ₁₇ H ₃₈ BrN MW 336.39				



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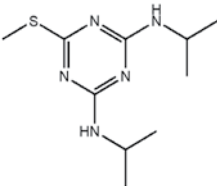
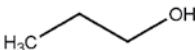
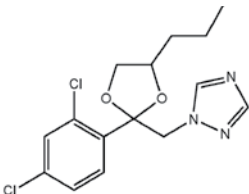
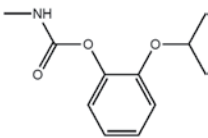
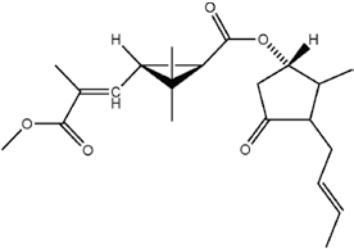
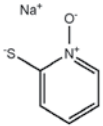
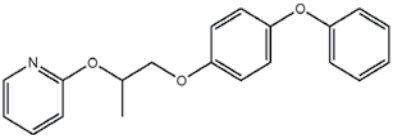
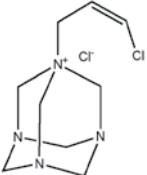
Nabam				GROUP	I, II
BIOC-075N-10MG	10 mg			USES	2, 4, 6, 9, 10, 11, 12, 13
CAS 142-59-6 MF C ₄ H ₆ N ₂ Na ₂ S ₄ MW 256.35					
Naled				GROUP	III
BIOC-200N-10MG	10 mg			USES	18
CAS 300-76-5 MF C ₄ H ₇ Br ₂ Cl ₂ O ₄ P MW 380.78					
Naphthalene				GROUP	III
BIOC-187N	100 mg			USES	19
CAS 91-20-3 MF C ₁₀ H ₈ MW 128.17					
Nonanoic acid				GROUP	I, II, III
BIOC-065N	100 mg			USES	2, 10, 19
CAS 112-05-0 MF C ₉ H ₁₈ O ₂ MW 158.24					
Octanoic acid				GROUP	I, III
BIOC-115N	100 mg			USES	4, 18
CAS 124-07-2 MF C ₈ H ₁₆ O ₂ MW 144.21					
Oct-1-ene-3-ol				GROUP	III
BIOC-205N	100 mg			USES	19
CAS 3391-86-4 MF C ₈ H ₁₆ O MW 128.21					
2-Octyl-2H-isothiazol-3-one				GROUP	I, II
BIOC-119N-10MG	10 mg			USES	4, 6, 7, 9, 10, 11, 12, 13
CAS 26530-20-1 MF C ₁₁ H ₁₉ NOS MW 213.34					
Orthophosphoric acid				GROUP	I
BIOC-117N-1G	1 gram			USES	4
CAS 7664-38-2 MF H ₃ O ₄ P MW 98.00					
Oxazolidine				GROUP	I, II
BIOC-102S	100 µg/mL in Methanol	1 mL		USES	2, 6, 10, 11, 12, 13
CAS 121776-33-8 MF C ₃ H ₇ NO MW 73.09					
Peracetic acid				GROUP	I, II
BIOC-011N	100 mg			USES	1, 2, 3, 4, 5, 6, 11, 12
CAS 79-21-0 MF C ₂ H ₄ O ₃ MW 76.05					
Permethrin				GROUP	I, II, III, IV
BIOC-100N-10MG	10 mg			USES	2, 3, 5, 8, 9, 18, 22
CAS 52645-53-1 MF C ₂₁ H ₂₀ Cl ₂ O ₃ MW 391.29					



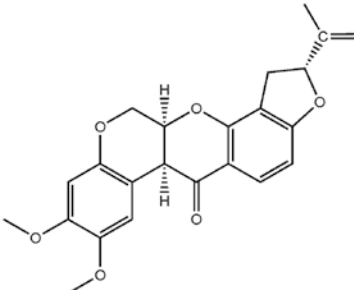
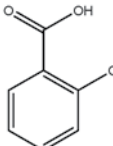
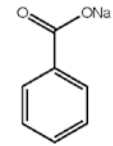
2-Phenoxyethanol				
BIOC-019N-25MG	25 mg			GROUP I, II
				USES 1, 2, 3, 4, 6, 7, 10, 11, 13
CAS 122-99-6 MF C ₈ H ₁₀ O ₂ MW 138.16				
o-Phenylphenol				
BIOC-013N-25MG	25 mg			GROUP I, II
				USES 1, 2, 3, 4, 6, 7, 9, 10, 13
CAS 90-43-7 MF C ₁₂ H ₁₀ O MW 170.21				
Piperonyl butoxide				
BIOC-184N-10MG	10 mg			GROUP III
				USES 18, 19
CAS 51-03-6 MF C ₁₉ H ₃₀ O ₅ MW 338.44				
Poly(vinylpyrrolidone) iodine complex				
BIOC-055N	100 mg			GROUP I, II, III, IV
				USES 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 22
CAS 25655-41-8 MF C ₄ H ₆ NO(CHCH ₂) _n • I ₂				
Potassium dimethyl dithiocarbamate				
BIOC-069N-50MG	50 mg			GROUP I, II
				USES 2, 4, 6, 9, 10, 11, 12, 13
CAS 128-03-0 MF C ₃ H ₆ KNS ₂ MW 159.32				
Potassium monopersulfate triple salt				
BIOC-054N-1G	1 gram		$\text{KHSO}_5 \cdot 1/2\text{KHSO}_4 \cdot 1/2\text{K}_2\text{SO}_4$	GROUP I, II
				USES 1, 2, 3, 4, 5, 11, 12
CAS 70693-62-8 MF KHSO ₅ • .5KHSO ₄ • .5K ₂ SO ₄ MW 307.38				
Potassium permanganate				
BIOC-121N	100 mg			GROUP I
				USES 5
CAS 7722-64-7 MF KMnO ₄ MW 158.03				
Potassium sorbate				
BIOC-049N	100 mg			GROUP I, II
				USES 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CAS 24634-61-5 MF C ₆ H ₇ KO ₂ MW 150.22				
Potassium sulfite				
BIOC-045N	100 mg		K_2SO_3	GROUP I, II, IV
				USES 1, 2, 4, 5, 6, 9, 11, 12, 13, 20, 22
CAS 10117-38-1 MF K ₂ O ₃ S MW 158.26				
Prallethrin				
BIOC-212S	100 µg/mL in Methanol	1 mL		GROUP III
				USES 18
CAS 23031-36-9 MF C ₁₉ H ₂₄ O ₃ MW 300.39				



Biocides

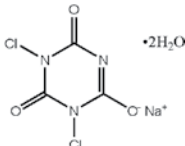
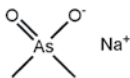
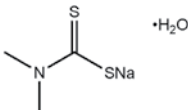
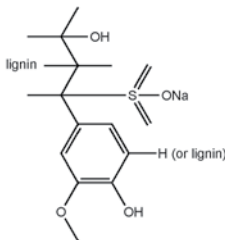
Prometryne				GROUP II USES 6, 7, 9, 10, 11, 12, 13
BIOC-131N-10MG	10 mg			
CAS 7287-19-6 MF C ₁₀ H ₁₉ N ₅ S MW 241.36				
1-Propanol				GROUP I USES 1, 2, 3, 4
BIOC-009N-25MG	25 mg			
CAS 71-23-8 MF C ₃ H ₈ O MW 60.10				
Propiconazole				GROUP I, II, IV USES 1, 2, 4, 7, 8, 9, 10, 12, 13, 20
BIOC-051N-10MG	10 mg			
CAS 60207-90-1 MF C ₁₅ H ₁₇ Cl ₂ N ₃ O ₂ MW 342.22				
Propoxur				GROUP III USES 18
BIOC-190N-10MG	10 mg			
CAS 114-26-1 MF C ₁₁ H ₁₅ NO ₃ MW 209.24				
Pyrethrins (Tech Mix)				GROUP III USES 18, 19
BIOC-209N-10MG	10 mg			
CAS 8003-34-7 MF C ₂₁ H ₃₀ O ₅ MW 362.46				
Pyridine-2-thiol-1-oxide, sodium salt				GROUP I, II USES 2, 3, 4, 6, 7, 9, 10, 11, 12, 13
BIOC-085N-10MG	10 mg			
CAS 3811-73-2 MF C ₅ H ₄ NNaOS MW 149.15				
Pyriproxyfen				GROUP III USES 18
BIOC-232N-10MG	10 mg			
CAS 95737-68-1 MF C ₂₀ H ₁₉ NO ₃ MW 321.37				
Quaternium-15				GROUP II USES 6, 9, 12, 13
BIOC-141N	100 mg			
CAS 51229-78-8 MF C ₉ H ₁₆ Cl ₂ N ₄ MW 251.16				



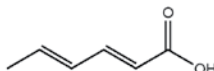
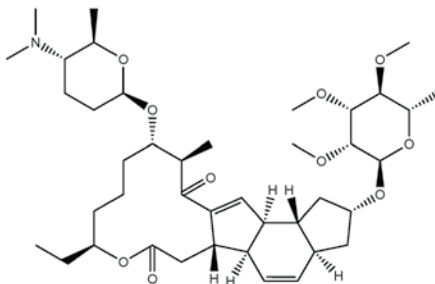
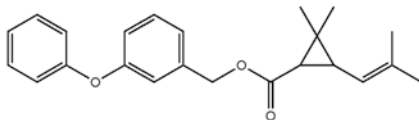
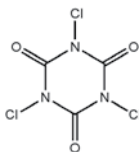
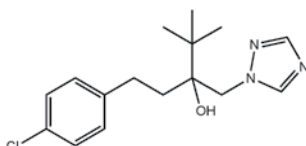
Rotenone				GROUP	III
BIOC-183N-10MG	10 mg			USES	17
CAS 83-79-4 MF C ₂₃ H ₂₂ O ₆ MW 394.42					
Salicylic acid				GROUP	I, II
BIOC-008N-25MG	25 mg			USES	1, 2, 3, 4, 6
CAS 69-72-7 MF C ₇ H ₆ O ₃ MW 138.12					
Silicium dioxide				GROUP	III
BIOC-233N	100 mg			USES	18
CAS 61790-53-2			A form of silicon dioxide composed of skeletons of prehistoric aquatic plants		
Silicon dioxide				GROUP	I, III, IV
BIOC-111N	100 mg			USES	3, 18, 20
CAS 7631-86-9 MF SiO ₂ MW 60.08			SiO ₂		
Silver				GROUP	I, II
BIOC-088S	1000 µg/mL in tr. Nitric acid in Water	100 mL		USES	2, 4, 5, 9, 11
CAS 7440-22-4 MF Ag MW 107.87			Ag		
Silver chloride				GROUP	I, II
BIOC-042N	100 mg			USES	1, 2, 3, 4, 5, 6, 7, 9, 10, 11 13
CAS 7783-90-6 MF AgCl MW 143.32			AgCl		
Silver nitrate				GROUP	I
BIOC-040N	100 mg			USES	1
CAS 7761-88-8 MF AgNO ₃ MW 169.87			AgNO ₃		
Sodium benzoate				GROUP	I, II, IV
BIOC-023N	100 mg			USES	1, 2, 6, 11, 20
CAS 532-32-1 MF C ₇ H ₅ NaO ₂ MW 144.10					
Sodium bisulfite				GROUP	I, II, IV
BIOC-034N-1G	1 gram			USES	1, 2, 4, 5, 6, 9, 11, 12, 13, 20, 22
CAS 7631-90-5 MF HNaO ₃ S MW 104.06			NaHSO ₃		



Biocides

Sodium bromide				
BIOC-091N	100 mg	NaBr	GROUP	I, II
			USES	2, 4, 6, 7, 9, 11, 12, 13
CAS 7647-15-6 MF NaBr MW 102.89				
Sodium chlorate				
BIOC-093N	100 mg	NaClO ₃	GROUP	I, II
			USES	2, 5, 11, 12
CAS 7775-09-9 MF NaClO ₃ MW 106.44				
Sodium chloride				
BIOC-120N	100 mg	NaCl	GROUP	I
			USES	5
CAS 7647-14-5 MF NaCl MW 58.44				
Sodium chlorite				
BIOC-092N	100 mg	NaClO ₂	GROUP	I, II, IV
			USES	2, 3, 4, 5, 11, 12, 20
CAS 7758-19-2 MF NaClO ₂ MW 90.44				
Sodium dichloroisocyanurate dihydrate				
BIOC-028N	100 mg		GROUP	I, II
			USES	1, 2, 3, 4, 5, 6, 9, 11, 12
CAS 51580-86-0 MF C ₃ H ₄ Cl ₂ N ₃ NaO ₅ MW 255.98				
Sodium dimethylarsinate				
BIOC-194N-10MG	10 mg		GROUP	III
			USES	18
CAS 124-65-2 MF C ₂ H ₆ AsNaO ₂ MW 159.98				
Sodium dimethyldithiocarbamate hydrate				
BIOC-070N	100 mg	 Anhydrous Basis	GROUP	I, II
			USES	2, 3, 4, 5, 6, 9, 10, 11, 12, 13
CAS 207233-95-2 MF C ₃ H ₆ NNaS ₂ MW 143.21				
Sodium lignosulfonate (Tech)				
BIOC-171N	100 mg		GROUP	II
			USES	12
CAS 8061-51-6				
Sodium metabisulfite				
BIOC-036N-1G	1 gram	Na ₂ S ₂ O ₅	GROUP	I, II, IV
			USES	1, 2, 4, 5, 6, 9, 11, 12, 13, 20, 22
CAS 7681-57-4 MF Na ₂ O ₅ S ₂ MW 190.11				



Sodium persulfate				
BIOC-118N	100 mg	Na₂S₂O₈	GROUP	I
			USES	4
CAS 7775-27-1 MF Na ₂ O ₈ S ₂ MW 238.10				
Sodium sulphite				
BIOC-038N-1G	1 gram	Na₂SO₃	GROUP	I, II, IV
			USES	1, 2, 4, 5, 6, 9, 11, 12, 13, 20, 22
CAS 7757-83-7 MF Na ₂ O ₃ S MW 126.04				
Sodium tetraborate				
BIOC-025N	100 mg	Na₂B₄O₇	GROUP	I, II
			USES	1, 2, 7, 8, 9, 10, 11, 13
CAS 1330-43-4 MF Na ₂ B ₄ O ₇ MW 201.22				
Sorbic acid				
BIOC-015N	100 mg		GROUP	I, II
			USES	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CAS 110-44-1 MF C ₆ H ₈ O ₂ MW 112.13				
Spinosad (Tech)				
BIOC-113N-10MG	10 mg		GROUP	I, III
			USES	3, 18
CAS 168316-95-8				
Sumithrin				
BIOC-238N-10MG	10 mg		GROUP	III
			USES	18
CAS 26002-80-2 MF C ₂₃ H ₂₆ O ₃ MW 350.45				
Symclosene				
BIOC-060N	100 mg		GROUP	I, II
			USES	2, 3, 4, 5, 6, 7, 9, 11, 12
CAS 87-90-1 MF C ₃ Cl ₃ N ₃ O ₃ MW 232.41				
Tebuconazol				
BIOC-149N-10MG	10 mg		GROUP	II
			USES	7, 8, 9, 10
CAS 107534-96-3 MF C ₁₆ H ₂₂ ClN ₃ O MW 307.82				

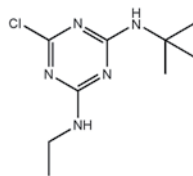


Biocides

Terbutylazine

BIOC-087N-10MG	10 mg	

CAS 5915-41-3 **MF** C₉H₁₆ClN₅ **MW** 229.71

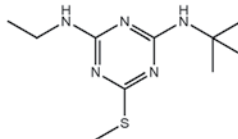


GROUP	I, II
USES	2, 11, 12

Terbutryn

BIOC-145N-10MG	10 mg	

CAS 886-50-0 **MF** C₁₀H₁₉N₅S **MW** 241.36

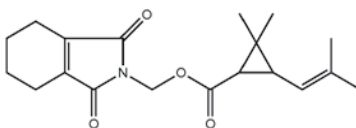


GROUP	II
USES	7, 9, 10

Tetramethrin

BIOC-207N-10MG	10 mg	

CAS 7696-12-0 **MF** C₁₉H₂₅NO₄ **MW** 331.41

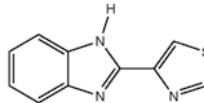


GROUP	III
USES	18

Thiabendazole

BIOC-076N-10MG	10 mg	

CAS 148-79-8 **MF** C₁₀H₇N₃S **MW** 201.25

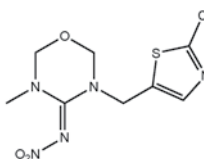


GROUP	I, II, IV
USES	2, 6, 7, 8, 9, 10, 11, 12, 13, 20

Thiamethoxam

BIOC-159N-10MG	10 mg	

CAS 153719-23-4 **MF** C₈H₁₀ClN₅O₃S **MW** 291.72

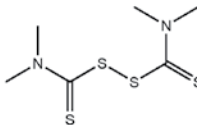


GROUP	II, III
USES	8, 9, 18

Thiram

BIOC-071N	100 mg	

CAS 137-26-8 **MF** C₆H₁₂N₂S₄ **MW** 240.44

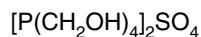


GROUP	I, II
USES	2, 6, 7, 9, 10, 11, 12

THPS (Tech Grade)

BIOC-101N	100 mg	

CAS 55566-30-8 **MF** [P(CH₂OH)₄]₂SO₄ **MW** 406.28

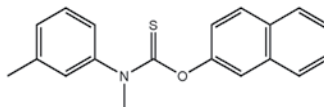


GROUP	I, II
USES	2, 6, 9, 11, 12

Tolnaftate

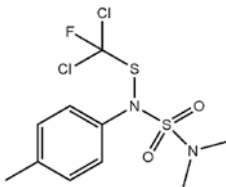
BIOC-164N-25MG	25 mg	

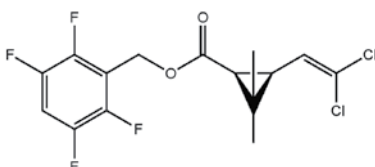
CAS 2398-96-1 **MF** C₁₉H₁₇NOS **MW** 307.41

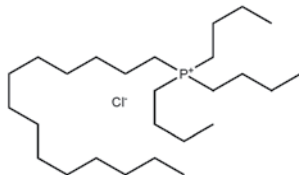


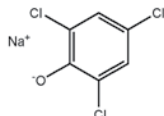
GROUP	II
USES	9

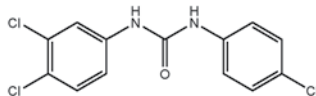


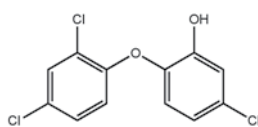
Tolylfluanide				GROUP	II, IV
BIOC-144N-10MG	10 mg			USES	7, 8, 10, 21
CAS 731-27-1 MF C ₁₀ H ₁₃ Cl ₂ FN ₂ O ₂ S ₂ MW 347.26					

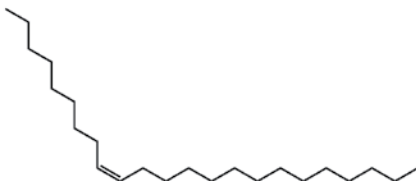
Transfluthrin				GROUP	III
BIOC-225N-10MG	10 mg			USES	18
CAS 118712-89-3 MF C ₁₅ H ₁₂ Cl ₂ F ₄ O ₂ MW 371.15					

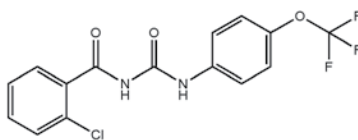
Tributyltetradecylphosphonium chloride				GROUP	I, II
BIOC-105N	100 mg			USES	2, 4, 9, 11, 12
CAS 81741-28-8 MF C ₂₆ H ₅₆ ClP MW 435.15					

2,4,6-Trichlorophenol sodium salt				GROUP	I, II
BIOC-084N	100 mg			USES	2, 3, 6, 9
CAS 3784-03-0 MF C ₆ H ₂ Cl ₃ NaO MW 219.43					

Triclocarban				GROUP	I
BIOC-014N-25MG	25 mg			USES	1, 2, 4
CAS 101-20-2 MF C ₁₃ H ₉ Cl ₃ N ₂ O MW 315.58					

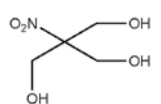
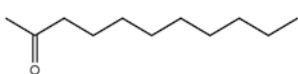
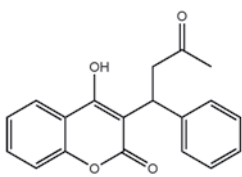
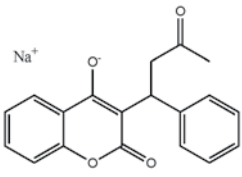
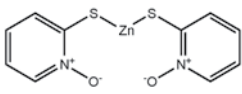
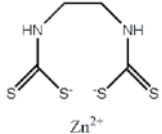
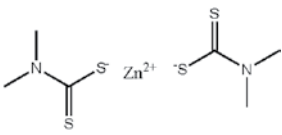
Triclosan				GROUP	I, II
BIOC-029N	100 mg			USES	1, 2, 3, 7, 9
CAS 3380-34-5 MF C ₁₂ H ₇ Cl ₃ O ₂ MW 289.54					

cis-Tricos-9-ene				GROUP	III
BIOC-213N	100 mg			USES	18, 19
CAS 27519-02-4 MF C ₂₃ H ₄₆ MW 322.61					

Triflumuron				GROUP	III
BIOC-220N-10MG	10 mg			USES	18
CAS 64628-44-0 MF C ₁₅ H ₁₀ ClF ₃ N ₂ O ₃ MW 358.70					



Biocides

Tris(hydroxymethyl)nitromethane				
BIOC-068N	100 mg			GROUP I, II
				USES 2, 3, 6, 11, 12, 13
CAS 126-11-4 MF C ₄ H ₉ NO ₅ MW 151.12				
Undecan-2-one (Methyl-nonyl-ketone)				
BIOC-189S-CN	100 µg/mL in Acetonitrile	1 mL		GROUP III
				USES 19
CAS 112-12-9 MF C ₁₁ H ₂₂ O MW 170.29				
Warfarin				
BIOC-172N-10MG	10 mg			GROUP III
				USES 14
CAS 81-81-2 MF C ₁₉ H ₁₆ O ₄ MW 308.33				
Warfarin sodium				
BIOC-174N	100 mg			GROUP III
				USES 14
CAS 129-06-6 MF C ₁₉ H ₁₅ NaO ₄ MW 330.31				
Zinc borate (Tech)				
BIOC-166N	100 mg		3ZnO • 2B ₂ O ₃ Typical composition: Zinc oxide 45%, Boric anhydride 34%, Water hydration 20%	GROUP II
				USES 9
CAS 12767-90-7				
Zinc pyrithione				
BIOC-096N	100 mg			GROUP I, II, IV
				USES 2, 6, 7, 9, 10, 13, 21
CAS 13463-41-7 MF C ₁₀ H ₈ N ₂ O ₂ S ₂ Zn ₂ MW 317.69				
Zinc sulfide				
BIOC-147N	100 mg		ZnS	GROUP II
				USES 7, 9, 10
CAS 1314-98-3 MF ZnS MW 97.44				
Zineb				
BIOC-210N-10MG	10 mg			GROUP IV
				USES 21
CAS 12122-67-7 MF C ₄ H ₆ N ₂ S ₄ Zn MW 275.76				
Ziram				
BIOC-072N-10MG	10 mg			GROUP I, II
				USES 2, 6, 7, 9, 10, 11, 12
CAS 137-30-4 MF C ₆ H ₁₂ N ₂ S ₄ Zn MW 305.83				

Compound Index

A	
Abamectin	1
Acetamiprid	1
Allethrin	1
Ammonium bromide	1
Ammonium sulfate	1
Azamethiphos	1
B	
Bendiocarb	1
Benzalkonium chloride (Tech)	1
Benzethonium chloride	2
1,2-Benzisothiazol-3(2H)-one	2
Benzoic acid	2
Benzyl benzoate	2
2-Benzyl-4-chlorophenol	2
Bifenthrin	2
2-Biphenylol sodium salt tetrahydrate	2
N,N'-Bis(hydroxymethyl)urea (MFG)	3
Bis(trichloromethyl) sulphone	3
Boric acid	3
Brodifacoum	3
Bromadiolone	3
Bromoacetic acid	3
2-Bromo-2-(bromomethyl)pentanedinitrile	3
2-Bromo-2-nitropropane-1,3-diol	3
Busan (TCMTB)	3
C	
Calcium hydroxide	4
Calcium hypochlorite	4
Calcium oxide	4
Calcium sorbate	4
Captan	4
Carbendazim	4
Cetylpyridinium chloride	4
Chloralose	4
Chloramine T trihydrate	4
Chlorfenapyr	5
Chloroacetamide	5
4-Chloro-3,5-dimethylphenol	5
4-Chloro-3-methylphenol	5
Chlorophacinone	5
Chlorothalonil	5
Chlorotoluron	5
Cinnamal	6
Citric acid	6
Clothianidin	6
Copper	6
Copper (II) carbonate basic	6
Copper dihydroxide	6
Copper (I) oxide	6
Copper (II) oxide	6
Copper (II) sulfate	6
Copper thiocyanate	6
Coumatetralyl	7
m-Cresol	7
Creosote from beechwood tar	7
Cyanamide	7
N-Cyclopropyl-1,3,5-triazine-2,4,6-triamine	7
Cyfluthrin	7
L-Cyhalothrin	7
a-Cypermethrin	7
Cypermethrin	8
Cyphenothrin	8
Cyproconazole	8
D	
Dazomet	8
Decanoic acid	8
Deltamethrin	8
Diazinon	8
Diazolidinyl urea	8
Diboron trioxide	9
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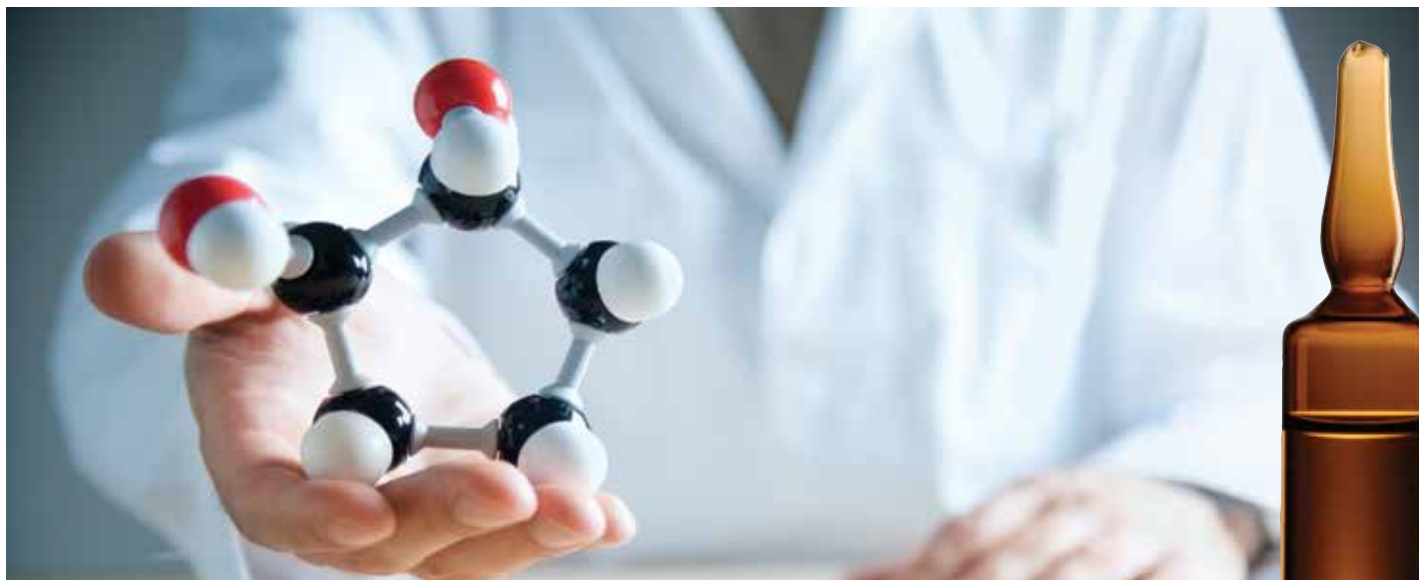
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