Biocide Standards Reference Guide

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 Directiv
Bioc

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.

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

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 algaecides.

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

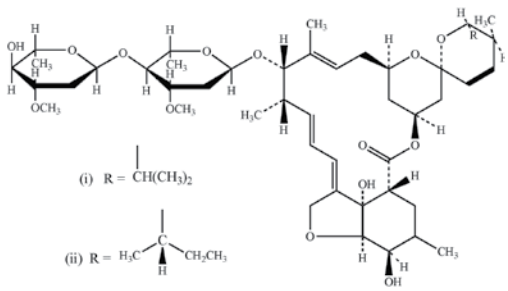
Products used for the control of vermin.

Biocides

Abamectin

BIOC-236N-10MG 10 mg

CAS 71751-41-2



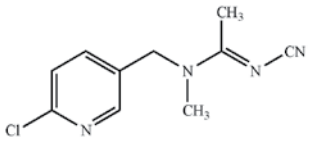
GROUP III

USES 18

Acetamiprid

BIOC-237N-10MG 10 mg

CAS 135410-20-7 **MF** $C_{10}H_{11}ClN_4$ **MW** 222.67



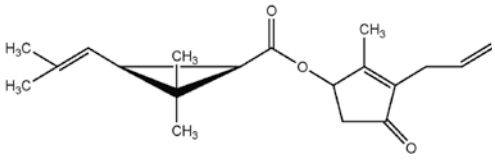
GROUP III

USES 18

Allethrin

BIOC-239N-10MG 10 mg

CAS 584-79-2 **MF** $C_{19}H_{26}O_3$ **MW** 302.41



GROUP III

USES 18

Ammonium bromide

BIOC-095N-10MG 10 mg

CAS 1212-97-9 **MF** BrH_4N **MW** 97.94

NH_4Br

GROUP I, II

USES 2, 4, 6, 7, 9, 11, 12

Ammonium sulfate

BIOC-168N 100 mg

CAS 7783-20-2 **MF** $H_8N_2O_4S$ **MW** 132.14

$(NH_4)_2SO_4$

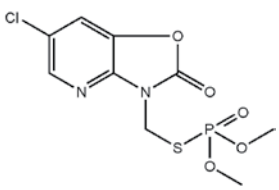
GROUP II

USES 11, 12

Azamethiphos

BIOC-215N-10MG 10 mg

CAS 35575-96-3 **MF** $C_9H_{10}ClN_2O_5PS$ **MW** 324.68



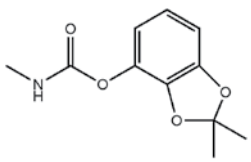
GROUP III

USES 18

Bendiocarb

BIOC-211N-10MG 10 mg

CAS 22781-23-3 **MF** $C_{11}H_{13}NO_4$ **MW** 223.23



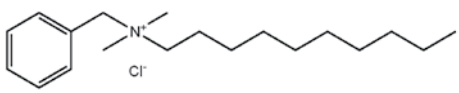
GROUP III

USES 18

Benzalkonium chloride (Tech)

BIOC-052N 100 mg

CAS 63449-41-2 **MF** $C_{19}H_{34}ClN$ **MW** 311.93



GROUP I, II, III, IV

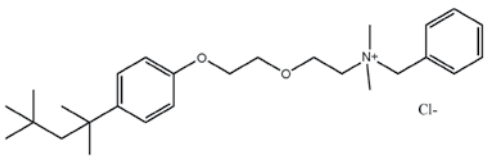
USES 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 17, 22

Biocides

Benzethonium chloride

BIOC-018N-25MG	25 mg	

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



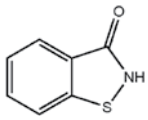
GROUP I

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



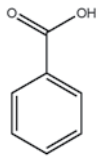
GROUP I, II, IV

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



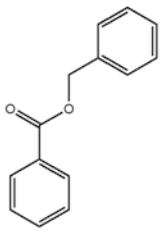
GROUP I, II, IV

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



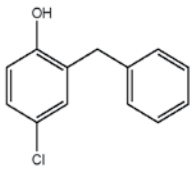
GROUP I, III

USES 2, 18

2-Benzyl-4-chlorophenol

BIOC-017N	100 mg	

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



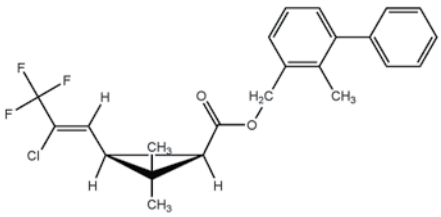
GROUP I, II

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



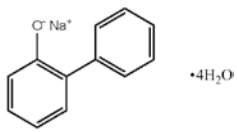
GROUP II, III

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

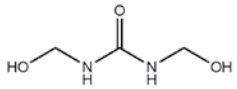
USES 1, 2, 3, 4, 6, 7, 9, 10, 13

Biocides

N,N'-Bis(hydroxymethyl)urea (MFG)

BIOC-074N	100 mg	

CAS 140-95-4 **MF** $C_3H_8N_2O_3$ **MW** 120.11



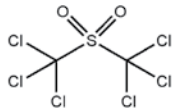
GROUP I, II

USES 2, 6, 9, 11, 12, 13

Bis(trichloromethyl) sulphone

BIOC-128N-10MG	10 mg	

CAS 3064-70-8 **MF** $C_2Cl_6O_2S$ **MW** 300.80



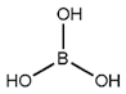
GROUP II, IV

USES 6, 9, 10, 11, 12, 22

Boric acid

BIOC-044N-1G	1 gram	

CAS 10043-35-3 **MF** BH_3O_3 **MW** 142.98



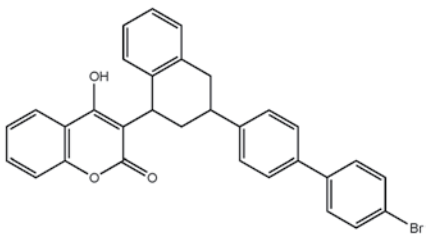
GROUP I, II, III, IV

USES 1, 2, 3, 6, 7, 8, 9, 10, 11, 12, 13, 18, 22

Brodifacoum

BIOC-180N-10MG	10 mg	

CAS 56073-10-0 **MF** $C_{31}H_{23}BrO_3$ **MW** 523.42



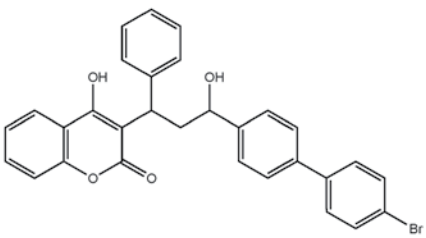
GROUP III

USES 14

Bromadiolone

BIOC-178N-10MG	10 mg	

CAS 28772-56-7 **MF** $C_{30}H_{23}BrO_4$ **MW** 527.41



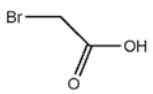
GROUP III

USES 14

Bromoacetic acid

BIOC-114N	100 mg	

CAS 79-08-3 **MF** $C_2H_3BrO_2$ **MW** 138.95



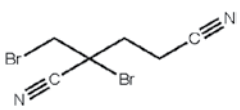
GROUP I

USES 4

2-Bromo-2-(bromomethyl)pentanedinitrile

BIOC-136N	100 mg	

CAS 35691-65-7 **MF** $C_6H_6Br_2N_2$ **MW** 265.93



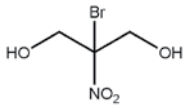
GROUP II

USES 6, 7, 9, 10, 11, 13

2-Bromo-2-nitropropane-1,3-diol

BIOC-002N-25MG	25 mg	

CAS 52-51-7 **MF** $C_{27}H_{42}ClNO_2$ **MW** 448.08



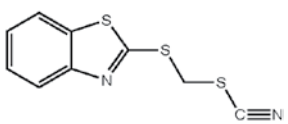
GROUP I, II, IV

USES 1, 2, 3, 4, 6, 7, 9, 10, 11, 12, 13, 22

Busan (TCMTB)

BIOC-097S-CN	100 µg/mL in Acetonitrile	1 mL

CAS 21564-17-0 **MF** $C_9H_6N_2S_3$ **MW** 238.36



GROUP I, II

USES 2, 4, 6, 7, 9, 10, 11, 12, 13

Biocides

Calcium hydroxide

BIOC-078N 100 mg

$Ca(OH)_2$

CAS 1305-62-0 **MF** CaH_2O_2 **MW** 74.09

GROUP I

USES 2, 3

Calcium hypochlorite

BIOC-041N 100 mg

$Ca(OCl)_2$

CAS 7778-54-3 **MF** $CaCl_2O_2$ **MW** 142.98

GROUP I, II

USES 1, 2, 3, 4, 5, 11

Calcium oxide

BIOC-079N 100 mg

CaO

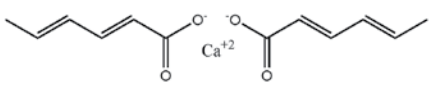
CAS 1305-78-8 **MF** CaO **MW** 56.08

GROUP I

USES 2, 3

Calcium sorbate

BIOC-032N 100 mg



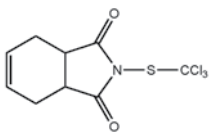
CAS 7492-55-9 **MF** $C_{12}H_{14}CaO_4$ **MW** 315.58

GROUP I, II, IV

USES 1, 3, 6, 7, 9, 20

Captan

BIOC-122N-10MG 10 mg



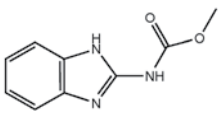
CAS 133-06-2 **MF** $C_9H_8Cl_3NO_2S$ **MW** 300.59

GROUP II

USES 6, 7, 9, 10

Carbendazim

BIOC-133N-10MG 10 mg



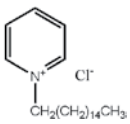
CAS 10605-21-7 **MF** $C_9H_9N_3O_2$ **MW** 191.19

GROUP II

USES 6, 7, 9, 10, 11, 12, 13

Cetylpyridinium chloride

BIOC-020N 100 mg



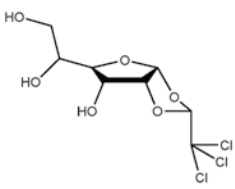
CAS 123-03-5 **MF** $C_{21}H_{38}ClN$ **MW** 339.99

GROUP I, II, IV

USES 1, 2, 3, 4, 5, 6, 7, 9, 20

Chloralose

BIOC-177N-10MG 10 mg



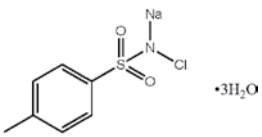
CAS 15879-93-3 **MF** $C_8H_{11}Cl_3O_6$ **MW** 309.53

GROUP III, IV

USES 14, 15, 23

Chloramine T trihydrate

BIOC-021N 100 mg



CAS 7080-50-4 **MF** $C_7H_{13}ClNNaO_5S \cdot 3H_2O$ **MW** 281.69

GROUP I, II

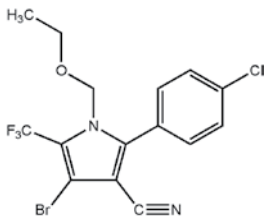
USES 1, 2, 3, 4, 5, 6, 9, 10, 11

Biocides

Chlorfenapyr

BIOC-143N-10MG 10 mg

CAS 122453-73-0 **MF** $C_{15}H_{11}BrClF_3N_2O$ **MW** 407.61



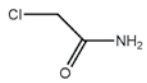
GROUP II, III

USES 6, 7, 8, 9, 10, 12, 13, 18

Chloroacetamide

BIOC-109N 100 mg

CAS 79-07-2 **MF** C_2H_4ClNO **MW** 93.51



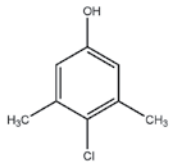
GROUP I, II

USES 3, 6, 7, 9, 10, 11, 13

4-Chloro-3,5-dimethylphenol

BIOC-012N-25MG 25 mg

CAS 88-04-0 **MF** C_8H_9ClO **MW** 156.61



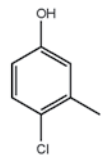
GROUP I, II

USES 1, 2, 3, 4, 5, 6

4-Chloro-3-methylphenol

BIOC-003N-25MG 25 mg

CAS 59-50-7 **MF** C_7H_7ClO **MW** 142.58



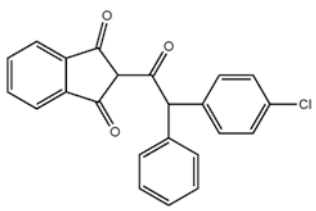
GROUP I, II

USES 1, 2, 3, 4, 6, 9, 10, 13

Chlorophacinone

BIOC-175N-10MG 10 mg

CAS 3691-35-8 **MF** $C_{23}H_{15}ClO_3$ **MW** 374.82



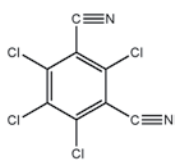
GROUP III

USES 14

Chlorothalonil

BIOC-126N-10MG 10 mg

CAS 1897-45-6 **MF** $C_8Cl_4N_2$ **MW** 265.91



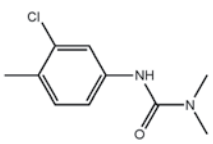
GROUP II

USES 6, 7, 9, 10

Chlorotoluron

BIOC-134N-10MG 10 mg

CAS 15545-48-9 **MF** $C_{10}H_{13}ClN_2O$ **MW** 212.68



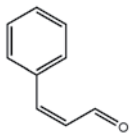
GROUP II

USES 6, 7, 9, 10, 11, 12, 13

Cinnamal

BIOC-062N	100 mg		**GROUP**	I
			USES	2

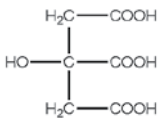
CAS 104-55-2 **MF** C_9H_8O **MW** 132.16



Citric acid

BIOC-010N-25MG	25 mg		**GROUP**	I
			USES	1, 2, 3

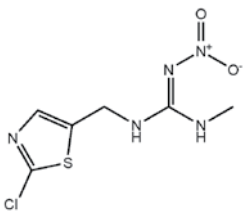
CAS 77-92-9 **MF** $C_6H_8O_7$ **MW** 192.12



Clothianidin

BIOC-112N-10MG	10 mg		**GROUP**	I, II, III
			USES	3, 8, 18

CAS 210880-92-5 **MF** $C_6H_8ClN_5O_2S$ **MW** 249.68



Copper

BIOC-089S	1000 µg/mL in	100 mL	**GROUP**	I, II, IV
	tr. Nitric acid		**USES**	2, 4, 5, 11, 21

CAS 7440-50-8 **MF** Cu **MW** 63.55

Cu

Copper (II) carbonate basic

BIOC-154N	100 mg		**GROUP**	II
			USES	8

CAS 12069-69-1 **MF** $Cu_2CO_5H_2$ **MW** 221.12

$CuCO_3 \cdot Cu(OH)_2$

Copper dihydroxide

BIOC-155N	100 mg		**GROUP**	II
			USES	8

CAS 20427-59-2 **MF** $Cu_2H_2O_2$ **MW** 97.56

$Cu(OH)_2$

Copper (I) oxide

BIOC-151N	100 mg		**GROUP**	II
			USES	8

CAS 1317-39-1 **MF** Cu_2O **MW** 143.09

Cu_2O

Copper (II) oxide

BIOC-203N	100 mg		**GROUP**	IV
			USES	21

CAS 1317-38-0 **MF** CuO **MW** 79.55

CuO

Copper (II) sulfate

BIOC-039N-1G	1 gram		**GROUP**	I
			USES	1, 2, 4

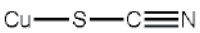
CAS 7758-98-7 **MF** $CuSO_4$ **MW** 159.61

$CuSO_4$

Copper thiocyanate

BIOC-202N	100 mg		**GROUP**	III, IV
			USES	19, 21

CAS 1111-67-7 **MF** CuSCN **MW** 121.63

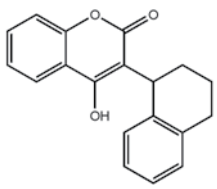


Biocides

Coumatetralyl

BIOC-176N-10MG 10 mg

CAS 5836-29-3 **MF** $C_{19}H_{16}O_3$ **MW** 292.33



GROUP III
USES 14

Creosote from beechwood tar

BIOC-153N 100 mg

CAS 8021-39-4

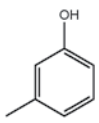
Product is a mixtue of many chemicals created by burning of beech woods

GROUP II
USES 8

m-Cresol

BIOC-064N 100 mg

CAS 108-39-4 **MF** C_7H_8O **MW** 108.14

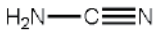


GROUP I
USES 2, 3

Cyanamide

BIOC-110N 100 mg

CAS 420-04-2 **MF** CH_2N_2 **MW** 42.04

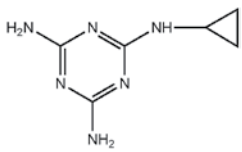


GROUP I, III
USES 3, 18

N-Cyclopropyl-1,3,5-triazine-2,4,6-triamine

BIOC-221N-10MG 10 mg

CAS 66215-27-8 **MF** $C_6H_{10}O_6$ **MW** 166.18

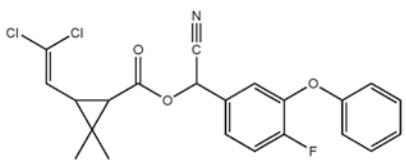


GROUP III
USES 18

Cyfluthrin

BIOC-222N-10MG 10 mg

CAS 68359-37-5 **MF** $C_{22}H_{18}Cl_2FNO_3$ **MW** 434.29

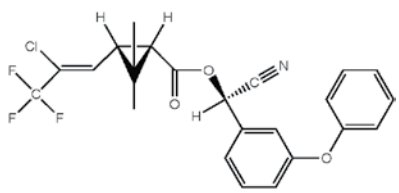


GROUP III
USES 18

L-Cyhalothrin

BIOC-227N-10MG 10 mg

CAS 91465-08-6 **MF** $C_{23}H_{19}ClF_3NO_3$ **MW** 449.85

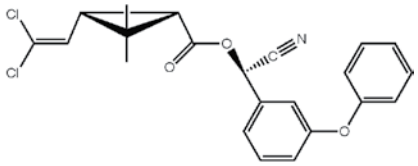


GROUP III
USES 18

a-Cypermethrin

BIOC-142N-10MG 10 mg

CAS 67375-30-8 **MF** $C_{22}H_{19}Cl_2NO_3$ **MW** 416.30



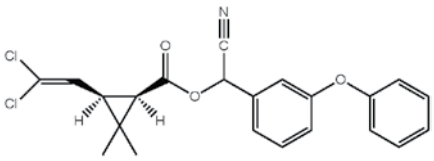
GROUP II, III
USES 6, 9, 18

Biocides

Cypermethrin

BIOC-156N-10MG	10 mg		**GROUP**	II, III
			USES	8, 9, 18

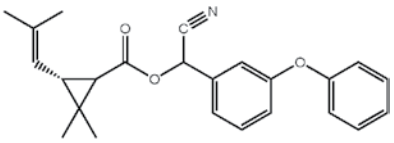
CAS 52315-07-8 **MF** $C_{22}H_{19}Cl_2NO_3$ **MW** 416.30



Cyphenothrin

BIOC-216N-10MG	10 mg		**GROUP**	III
			USES	18

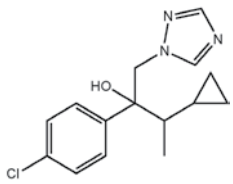
CAS 39515-40-7 **MF** $C_{24}H_{25}NO_3$ **MW** 375.46



Cyproconazole

BIOC-162S	100 µg/mL in Methanol	1 mL	**GROUP**	II
			USES	8

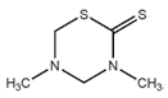
CAS 94361-06-5 **MF** $C_{15}H_{18}ClN_3O$ **MW** 291.78



Dazomet

BIOC-125N-10MG	10 mg		**GROUP**	I, II
			USES	6, 7, 8, 9, 10, 11, 12

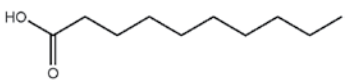
CAS 533-74-4 **MF** $C_5H_{10}N_2S_2$ **MW** 162.28



Decanoic acid

BIOC-116N ❄	100 mg		**GROUP**	I, III
			USES	4, 18, 19

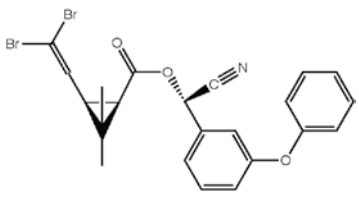
CAS 334-48-5 **MF** $C_{10}H_{20}O_2$ **MW** 172.26



Deltamethrin

BIOC-218N-10MG	10 mg		**GROUP**	III
			USES	18

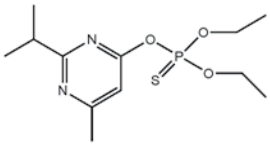
CAS 52918-63-5 **MF** $C_{22}H_{19}Br_2NO_3$ **MW** 505.20



Diazinon

BIOC-201N-10MG	10 mg		**GROUP**	III
			USES	18

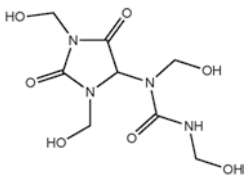
CAS 333-41-5 **MF** $C_{12}H_{21}N_2O_3PS$ **MW** 304.35



Diazolidinyl urea

BIOC-140N	100 mg		**GROUP**	II
			USES	6, 7

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



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

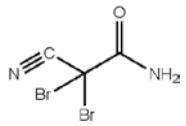
Biocides

Diboron trioxide

BIOC-150N	100 mg		B_2O_3	**GROUP**	II
				USES	8

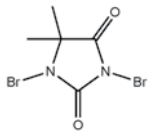
CAS 1303-86-2 **MF** B_2O_3 **MW** 69.62

2,2-Dibromo-2-cyanoacetamide

BIOC-046N	100 mg			**GROUP**	I, II
				USES	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13

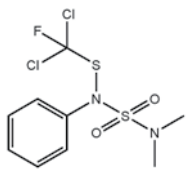
CAS 10222-01-2 **MF** $C_3H_2Br_2N_2O^-$ **MW** 241.87

1,3-Dibromo-5,5-dimethylhydantoin

BIOC-057N	100 mg			**GROUP**	I, II
				USES	2, 11, 12

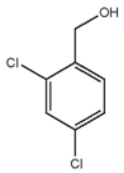
CAS 77-48-5 **MF** $C_5H_6Br_2N_2O_2$ **MW** 285.92

Dichlofluanid

BIOC-146N-10MG	10 mg			**GROUP**	II, IV
				USES	7, 8, 10, 21

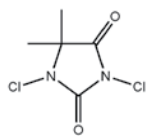
CAS 1085-98-9 **MF** $C_9H_{11}Cl_2FN_2O_2S_2$ **MW** 333.23

2,4-Dichlorobenzyl alcohol

BIOC-081N	100 mg			**GROUP**	I, II
				USES	2, 6, 7, 9, 10, 12, 13

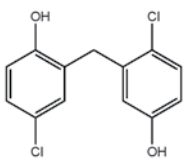
CAS 1777-82-8 **MF** $C_7H_6Cl_2O$ **MW** 177.03

1,3-Dichloro-5,5-dimethylhydantoin

BIOC-066N-1G	1 gram			**GROUP**	I, II
				USES	2, 11, 12

CAS 118-52-5 **MF** $C_5H_6Cl_2H_2O_2$ **MW** 197.02

Dichlorophen

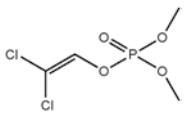
BIOC-061N-10MG	10 mg			**GROUP**	I, II
				USES	2, 3, 4, 6, 7, 9, 10, 11, 12, 13

CAS 97-23-4 **MF** $C_{13}H_{10}Cl_2O_2$ **MW** 269.12

Dichlorvos

BIOC-185N-10MG	10 mg	

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



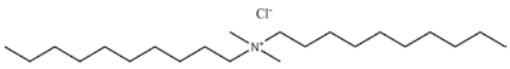
GROUP III

USES 18

Didecyldimethylammonium chloride

BIOC-030N-10MG	10 mg	

CAS 7173-51-5 **MF** $C_{22}H_{48}ClN$ **MW** 362.08



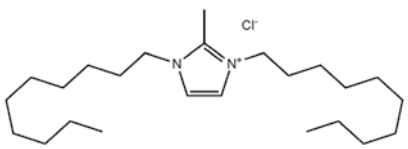
GROUP I, II

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



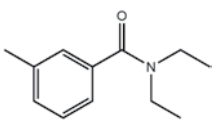
GROUP I, II

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



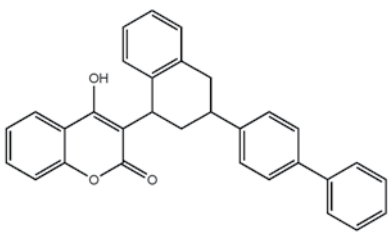
GROUP III, IV

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



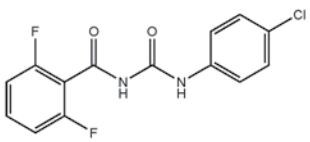
GROUP III

USES 14

Diflubenzuron

BIOC-214N-10MG	10 mg	

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



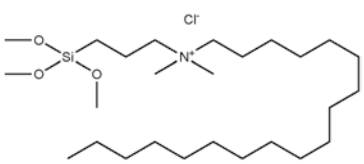
GROUP III

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

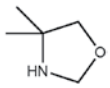
USES 2, 7, 9, 10

Biocides

4,4-Dimethyloxazolidine

BIOC-137N-10MG 10 mg

CAS 51200-87-4 **MF** $C_5H_{11}NO$ **MW** 101.15



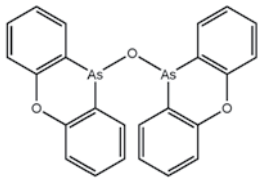
GROUP II

USES 6, 11, 12, 13

Diphenoxarsin-10-yl oxide

BIOC-163N 100 mg

CAS 58-36-6 **MF** $C_{24}H_{16}As_2O_3$ **MW** 502.23



GROUP II

USES 9

Dipotassium disulfite

BIOC-047N-1G 1 gram

CAS 16731-55-8 **MF** $K_2O_5S_2$ **MW** 222.32

$K_2S_2O_5$

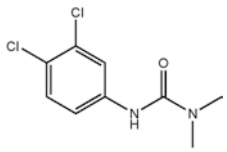
GROUP I, II, IV

USES 1, 2, 4, 5, 6, 9, 11, 12, 13, 20, 22

Diuron (Karmex)

BIOC-124N-10MG 10 mg

CAS 330-54-1 **MF** $C_9H_{10}Cl_2N_2O$ **MW** 233.09



GROUP II

USES 6, 7, 10

Disilver oxide

BIOC-169N 100 mg

CAS 20667-12-3 **MF** Ag_2O **MW** 231.74

Ag_2O

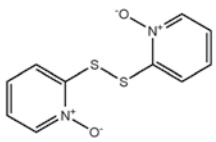
GROUP II

USES 11

2,2'-Dithiobis(pyridine-N-oxide)

BIOC-165N-10MG 10 mg

CAS 3696-28-4 **MF** $C_{10}H_8N_2O_2S_2$ **MW** 252.31



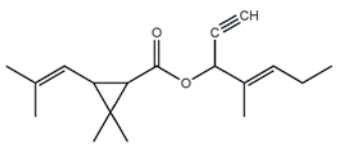
GROUP II

USES 9

Empenthrin

BIOC-219N-10MG 10 mg

CAS 54406-48-3 **MF** $C_{18}H_{26}O_2$ **MW** 274.40



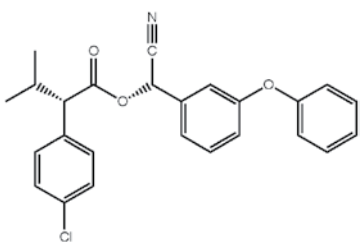
GROUP III

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

Ethanol

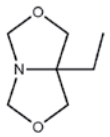
BIOC-004N-25MG	25 mg		**GROUP**	I
			USES	1, 2, 3, 4

CAS 64-17-5 **MF** C_2H_6O **MW** 46.07

5-Ethyl-1-aza-3,7-dioxabicyclo[3,3,0]octane

BIOC-132N	100 mg		**GROUP**	II
			USES	6, 11, 12, 13

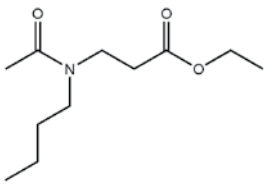
CAS 7747-35-5 **MF** $C_7H_{13}NO_2$ **MW** 143.18



Ethyl butylacetcylaminopropionate

BIOC-217S	100 µg/mL in Methanol	1 mL	**GROUP**	III
			USES	18

CAS 52304-36-6 **MF** $C_{11}H_{21}NO_3$ **MW** 215.29



Ethylene oxide

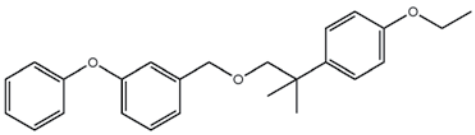
BIOC-056S-TP	5 mg/mL in Isooctane	1 mL	**GROUP**	I, IV
			USES	2, 20

CAS 75-21-8 **MF** C_2H_4O **MW** 44.05

Etofenprox

BIOC-106N-10MG	10 mg		**GROUP**	I, II, III
			USES	2, 3, 8, 18

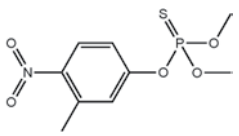
CAS 80844-07-1 **MF** $C_{25}H_{28}O_3$ **MW** 376.49



Fenitrothion

BIOC-191S	100 µg/mL in Methanol	1 mL	**GROUP**	III
			USES	18

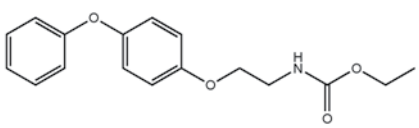
CAS 122-14-5 **MF** $C_9H_{12}NO_5PS$ **MW** 277.24



Fenoxycarb

BIOC-157N-10MG	10 mg		**GROUP**	II
			USES	8

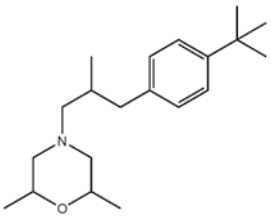
CAS 72490-01-8 **MF** $C_{17}H_{19}NO_4$ **MW** 301.34



Fenpropimorph

BIOC-139N-10MG	10 mg		**GROUP**	II
			USES	6, 7, 8, 9, 10, 12, 13

CAS 67564-91-4 **MF** $C_{20}H_{33}NO$ **MW** 303.48

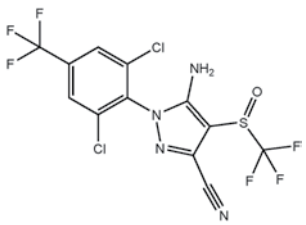


Biocides

Fipronil

BIOC-229N-10MG	10 mg	

CAS 120068-37-3 **MF** $C_{12}H_4Cl_2F_6N_4OS$ **MW** 437.15

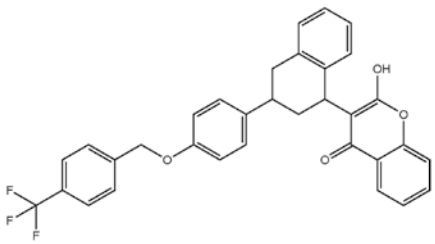


GROUP III
USES 18

Flocoumafen

BIOC-181S	100 µg/mL in Methanol	1 mL

CAS 90035-08-8 **MF** $C_{33}H_{25}F_3O_4$ **MW** 542.54

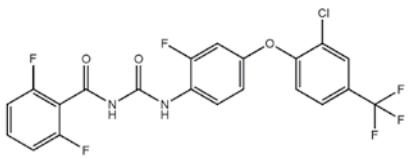


GROUP III
USES 14

Flufenoxuron

BIOC-158N-10MG	10 mg	

CAS 101463-69-8 **MF** $C_{21}H_{11}ClF_6N_2O_3$ **MW** 488.77

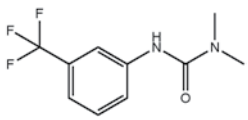


GROUP II, III
USES 8, 18

Fluometuron

BIOC-127N-10MG	10 mg	

CAS 2164-17-2 **MF** $C_{10}H_{11}F_3N_2O$ **MW** 232.20

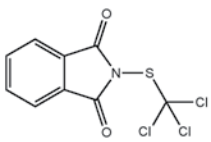


GROUP II
USES 6, 7, 9, 10, 11, 12, 13

Folpet

BIOC-123N-10MG	10 mg	

CAS 133-07-3 **MF** $C_9H_4Cl_3NO_2S$ **MW** 296.56

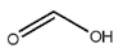


GROUP II
USES 6, 7, 9, 10

Formic acid

BIOC-005N-25MG	25 mg	

CAS 64-18-6 **MF** CH_2O_2 **MW** 46.03

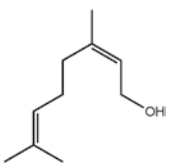


GROUP I, II
USES 1, 2, 3, 4, 5, 6, 9, 11, 12, 13

Geraniol

BIOC-188N	100 mg	

CAS 106-24-1 **MF** $C_{10}H_{18}O$ **MW** 154.25

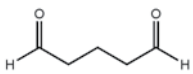


GROUP III
USES 18, 19

Gluteraldehyde

BIOC-016S-W	50% wt. in Water	1 mL

CAS 111-30-8 **MF** $C_5H_8O_2$ **MW** 100.12

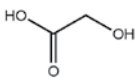


GROUP I, II, IV
USES 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 22

Glycolic acid

BIOC-058N	100 mg		**GROUP**	I, II
			USES	2, 3, 4, 12

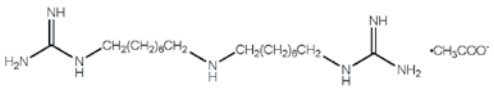
CAS 79-14-1 **MF** $C_2H_4O_3$ **MW** 76.05



Guazatine acetate (Tech)

BIOC-108N-10MG	10 mg		**GROUP**	I
			USES	2

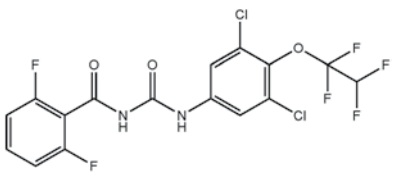
CAS 115044-19-4 **MF** $C_{24}H_{53}N_7O_6$ **MW** 535.72



Hexaflumuron

BIOC-224N-10MG	10 mg		**GROUP**	III
			USES	18

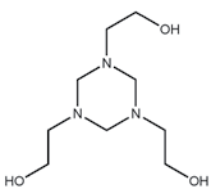
CAS 86479-06-3 **MF** $C_{16}H_8Cl_2F6_2N_2O_3$ **MW** 461.14



Hexahydro-1,3,5-tris(hydroxyethyl)triazine

BIOC-086N	100 mg		**GROUP**	I, II
			USES	2, 3, 4, 6, 9, 11, 12, 13

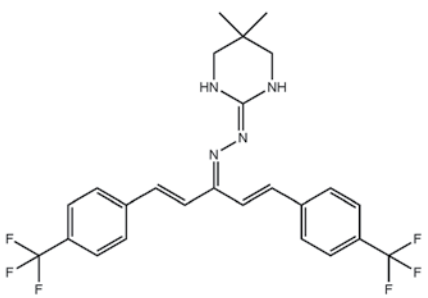
CAS 4719-04-4 **MF** $C_9H_{21}N_3O_3$ **MW** 219.28



Hydramethylnon

BIOC-226S	100 µg/mL in Methanol	1 mL	**GROUP**	III
			USES	18

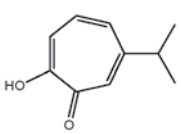
CAS 67485-29-4 **MF** $C_{25}H_{24}F_6N_4$ **MW** 494.48



2-Hydroxy-4-isopropyl-2,4,6-cycloheptatrien-1-one

BIOC-167N	100 mg		**GROUP**	II
			USES	10

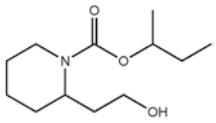
CAS 499-44-5 **MF** $C_{10}H_{12}O_2$ **MW** 164.20



Icaridin

BIOC-228S-CN	100 µg/mL in Acetonitrile	1 mL

CAS 119515-38-7 **MF** $C_{12}H_{23}NO_3$ **MW** 229.32

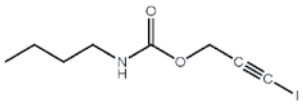


GROUP III
USES 19

Imazalil

BIOC-099N-10MG	10 mg	

CAS 35554-44-0 **MF** $C_{14}H_{14}Cl_2N_2O$ **MW** 297.18

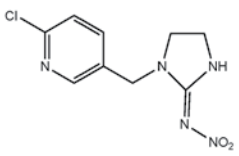


GROUP I, II, IV
USES 2, 3, 4, 13, 20

Imidacloprid

BIOC-230N-10MG	10 mg	

CAS 138261-41-3 **MF** $C_9H_{10}ClN_5O_2$ **MW** 255.66

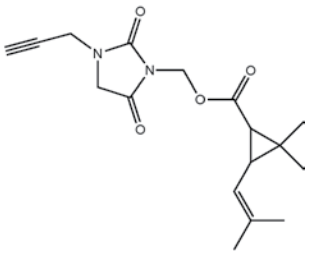


GROUP III
USES 18

Imiprothrin

BIOC-231S-CN	100 µg/mL in Acetonitrile	1 mL

CAS 72963-72-5 **MF** $C_{17}H_{22}N_2O_4$ **MW** 318.37



GROUP III
USES 18

Iodine

BIOC-033N	100 mg	

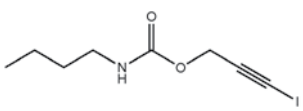
CAS 7553-56-2 **MF** I_2 **MW** 253.81

GROUP I, II, IV
USES 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 22

3-Iodo-2-propynyl butylcarbamate

BIOC-138N	100 mg	

CAS 5546-53-6 **MF** $C_8H_{12}INO_2$ **MW** 281.09

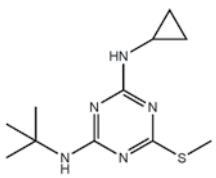


GROUP II
USES 6, 7, 8, 9, 10, 11, 13

Irgarol

BIOC-148N-10MG	10 mg	

CAS 28159-98-0 **MF** $C_{11}H_{19}N_5S$ **MW** 253.37

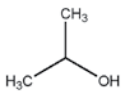


GROUP II
USES 7, 9, 10

Isopropanol

BIOC-007N-25MG	25 mg	

CAS 67-63-0 **MF** C_3H_8O **MW** 60.10

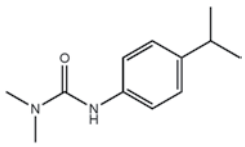


GROUP I, II
USES 1, 2, 3, 4, 5, 6, 9, 10, 11, 12

Isoproturon

BIOC-135N-10MG 10 mg

CAS 34123-59-6 **MF** $C_{12}H_{18}N_2O$ **MW** 206.28



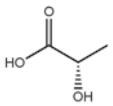
GROUP II

USES 6, 7, 9, 10, 11, 12, 13

L-(+)-Lactic acid

BIOC-059N-50MG 50 mg

CAS 79-33-4 **MF** $C_3H_6O_3$ **MW** 90.08



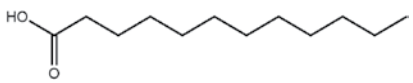
GROUP I, II, IV

USES 2, 3, 4, 6, 20

Lauric acid

BIOC-199N 100 mg

CAS 143-07-7 **MF** $C_{12}H_{24}O_2$ **MW** 200.32



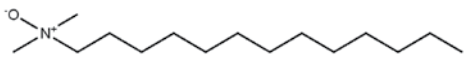
GROUP III

USES 19

Lauryl dimethylamine oxide

BIOC-053N 100 mg

CAS 70592-80-2 **MF** $C_{15}H_{33}NO$ **MW** 243.43



GROUP I

USES 1, 2

Lignin (Alkaline)

BIOC-043N-1G 1 gram

CAS 9005-53-2

Cross-linked racemic macromolecule
Molecular mass in excess of 10,000

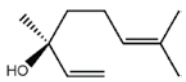
GROUP I, II

USES 1, 2, 3, 4, 6, 7, 9, 10, 11, 12, 13

Linalool

BIOC-186N 100 mg

CAS 78-70-6 **MF** $C_{10}H_{18}O$ **MW** 154.25



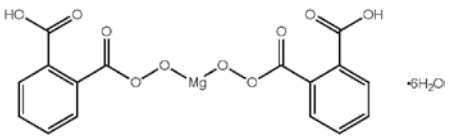
GROUP III

USES 19

Magnesium bis(monoperoxyphthalate) hexahydrate

BIOC-104N 100 mg

CAS 84665-66-7 **MF** $C_{16}H_{22}MgO_{16}$ **MW** 494.64



GROUP I

USES 2, 3, 4

Margosa extract

BIOC-223N 100 mg

CAS 84696-25-3

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

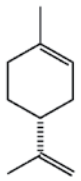
GROUP III

USES 18, 19

(R)-p-Mentha-1,8-diene

BIOC-170N 100 mg

CAS 5989-27-5 **MF** $C_{10}H_{16}$ **MW** 136.23



GROUP II

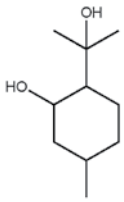
USES 12

Biocides

(+)-cis-p-Menthane-3,8-diol

BIOC-050S-CN	100 µg/mL in Acetonitrile	1 mL

CAS 42822-86-6 **MF** $C_{10}H_{20}O_2$ **MW** 172.27

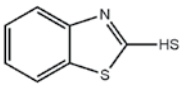


GROUP I, III
USES 1, 2, 19

2-Mercaptobenzothiazole

BIOC-077N-10MG	10 mg	

CAS 149-30-4 **MF** $C_7H_5NS_2$ **MW** 167.25

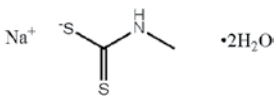


GROUP I, II
USES 2, 7, 9, 11, 12, 13

Metam-sodium dihydrate

BIOC-073N-10MG	10 mg	

CAS 6734-80-1 **MF** $C_2H_8NNaO_2S_2$ **MW** 165.21

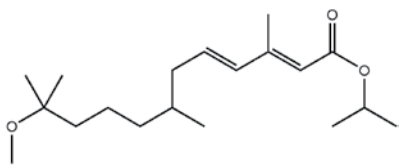


GROUP I, II, IV
USES 2, 4, 6, 9, 11, 12, 13, 20

S-Methoprene

BIOC-234S	100 µg/mL in Methanol	1 mL

CAS 65733-16-6 **MF** $C_{19}H_{34}O_3$ **MW** 310.47

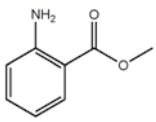


GROUP III
USES 18

Methyl anthranilate

BIOC-195N	100 mg	

CAS 134-20-3 **MF** $C_8H_9NO_2$ **MW** 151.16

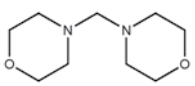


GROUP III
USES 19

N,N'-Methylenebismorpholine

BIOC-129S	100 µg/mL in Methanol	1 mL

CAS 5625-90-1 **MF** $C_9H_{18}N_2O_2$ **MW** 186.25

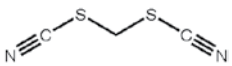


GROUP II
USES 6, 9, 11, 13

Methylene dithiocyanate

BIOC-130N	100 mg	

CAS 6317-18-6 **MF** $C_3H_2N_2S_2$ **MW** 130.19

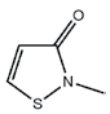


GROUP II, IV
USES 6, 7, 9, 10, 11, 12, 13, 22

2-Methyl-2H-isothiazol-3-one

BIOC-083N-10MG	10 mg	

CAS 2682-20-4 **MF** C_4H_5NOS **MW** 115.15

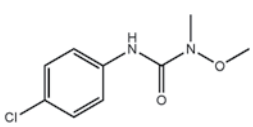


GROUP I, II, IV
USES 2, 4, 6, 7, 9, 10, 11, 12, 13, 22

Monolinuron

BIOC-080N-10MG	10 mg	

CAS 1746-81-2 **MF** $C_9H_{11}ClN_2O_2$ **MW** 214.65

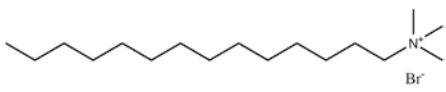


GROUP I
USES 2

Myristyltrimethylammonium bromide

BIOC-024N	100 mg	

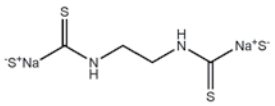
CAS 1119-97-7 **MF** $C_{17}H_{38}BrN$ **MW** 336.39



GROUP I
USES 1

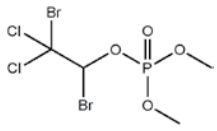
Biocides

Nabam

BIOC-075N-10MG	10 mg			**GROUP**	I, II
				USES	2, 4, 6, 9, 10, 11, 12, 13

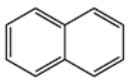
CAS 142-59-6 **MF** $C_4H_6N_2Na_2S_4$ **MW** 256.35

Naled

BIOC-200N-10MG	10 mg			**GROUP**	III
				USES	18

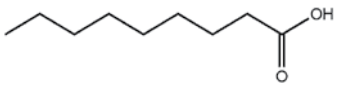
CAS 300-76-5 **MF** $C_4H_7Br_2Cl_2O_4P$ **MW** 380.78

Naphthalene

BIOC-187N	100 mg			**GROUP**	III
				USES	19

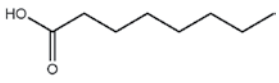
CAS 91-20-3 **MF** $C_{10}H_8$ **MW** 128.17

Nonanoic acid

BIOC-065N	100 mg			**GROUP**	I, II, III
				USES	2, 10, 19

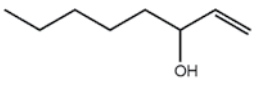
CAS 112-05-0 **MF** $C_9H_{18}O_2$ **MW** 158.24

Octanoic acid

BIOC-115N	100 mg			**GROUP**	I, III
				USES	4, 18

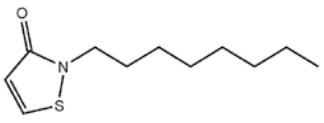
CAS 124-07-2 **MF** $C_8H_{16}O_2$ **MW** 144.21

Oct-1-ene-3-ol

BIOC-205N	100 mg			**GROUP**	III
				USES	19

CAS 3391-86-4 **MF** $C_8H_{16}O$ **MW** 128.21

2-Octyl-2H-isothiazol-3-one

BIOC-119N-10MG	10 mg			**GROUP**	I, II
				USES	4, 6, 7, 9, 10, 11, 12, 13

CAS 26530-20-1 **MF** $C_{11}H_{19}NOS$ **MW** 213.34

Orthophosphoric acid

BIOC-117N-1G	1 gram		H_3PO_4	**GROUP**	I
				USES	4

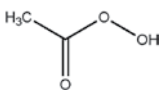
CAS 7664-38-2 **MF** H_3O_4P **MW** 98.00

Oxazolidine

BIOC-102S	100 µg/mL in Methanol	1 mL		**GROUP**	I, II
				USES	2, 6, 10, 11, 12, 13

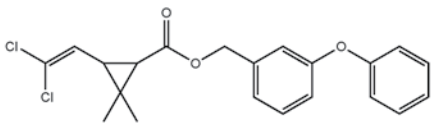
CAS 121776-33-8 **MF** C_3H_7NO **MW** 73.09

Peracetic acid

BIOC-011N	100 mg			**GROUP**	I, II
				USES	1, 2, 3, 4, 5, 6, 11, 12

CAS 79-21-0 **MF** $C_2H_4O_3$ **MW** 76.05

Permethrin

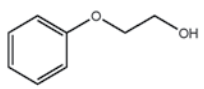
BIOC-100N-10MG	10 mg			**GROUP**	I, II, III, IV
				USES	2, 3, 5, 8, 9, 18, 22

CAS 52645-53-1 **MF** $C_{21}H_{20}Cl_2O_3$ **MW** 391.29

2-Phenoxyethanol

BIOC-019N-25MG	25 mg		**GROUP**	I, II
			USES	1, 2, 3, 4, 6, 7, 10, 11, 13

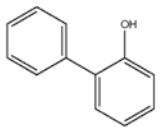
CAS 122-99-6 **MF** $C_8H_{10}O_2$ **MW** 138.16



o-Phenylphenol

BIOC-013N-25MG	25 mg		**GROUP**	I, II
			USES	1, 2, 3, 4, 6, 7, 9, 10, 13

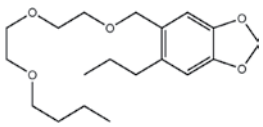
CAS 90-43-7 **MF** $C_{12}H_{19}O$ **MW** 170.21



Piperonyl butoxide

BIOC-184N-10MG	10 mg		**GROUP**	III
			USES	18, 19

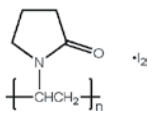
CAS 51-03-6 **MF** $C_{19}H_{30}O_5$ **MW** 338.44



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

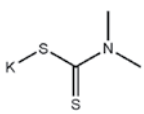
CAS 25655-41-8 **MF** $C_4H_6NO(CHCH_2)n \bullet I_2$



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** $C_3H_6KNS_2$ **MW** 159.32



Potassium monopersulfate triple salt

BIOC-054N-1G	1 gram		**GROUP**	I, II
			USES	1, 2, 3, 4, 5, 11, 12

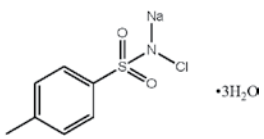
CAS 70693-62-8 **MF** $KHSO_5 \bullet .5KHSO_4 \bullet .5K_2SO_4$ **MW** 307.38

$KHSO_5 \bullet 1/_2KHSO_4 \bullet 1/_2K_2SO_4$

Potassium permanganate

BIOC-121N	100 mg		**GROUP**	I
			USES	5

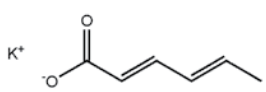
CAS 7722-64-7 **MF** $KMnO_4$ **MW** 158.03



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** $C_6H_7KO_2$ **MW** 150.22



Potassium sulfite

BIOC-045N	100 mg		**GROUP**	I, II, IV
			USES	1, 2, 4, 5, 6, 9, 11, 12, 13, 20, 22

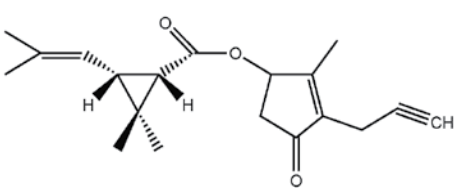
CAS 10117-38-1 **MF** K_2O_3S **MW** 158.26

K_2SO_3

Prallethrin

BIOC-212S	100 µg/mL in Methanol	1 mL	**GROUP**	III
			USES	18

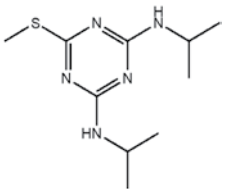
CAS 23031-36-9 **MF** $C_{19}H_{24}O_3$ **MW** 300.39



Prometryne

BIOC-131N-10MG	10 mg	

CAS 7287-19-6 **MF** $C_{10}H_{19}N_5S$ **MW** 241.36

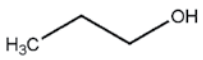


GROUP II
USES 6, 7, 9, 10, 11, 12, 13

1-Propanol

BIOC-009N-25MG	25 mg	

CAS 71-23-8 **MF** C_3H_8O **MW** 60.10

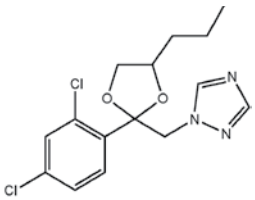


GROUP I
USES 1, 2, 3, 4

Propiconazole

BIOC-051N-10MG	10 mg	

CAS 60207-90-1 **MF** $C_{15}H_{17}Cl_2N_3O_2$ **MW** 342.22

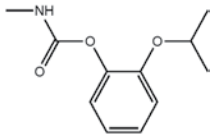


GROUP I, II, IV
USES 1, 2, 4, 7, 8, 9, 10, 12, 13, 20

Propoxur

BIOC-190N-10MG	10 mg	

CAS 114-26-1 **MF** $C_{11}H_{15}NO_3$ **MW** 209.24

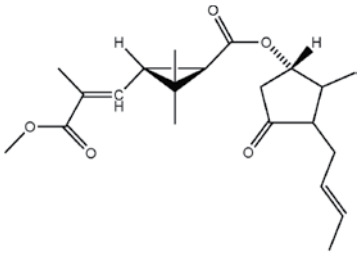


GROUP III
USES 18

Pyrethrins (Tech Mix)

BIOC-209N-10MG	10 mg	

CAS 8003-34-7 **MF** $C_{21}H_{30}O_5$ **MW** 362.46

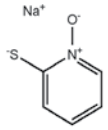


GROUP III
USES 18, 19

Pyridine-2-thiol-1-oxide, sodium salt

BIOC-085N-10MG	10 mg	

CAS 3811-73-2 **MF** C_5H_4NNaOS **MW** 149.15

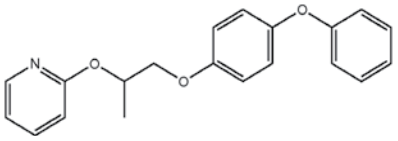


GROUP I, II
USES 2, 3, 4, 6, 7, 9, 10, 11, 12, 13

Pyriproxyfen

BIOC-232N-10MG	10 mg	

CAS 95737-68-1 **MF** $C_{20}H_{19}NO_3$ **MW** 321.37

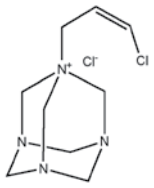


GROUP III
USES 18

Quaternium-15

BIOC-141N	100 mg	

CAS 51229-78-8 **MF** $C_9H_{16}Cl_2N_4$ **MW** 251.16

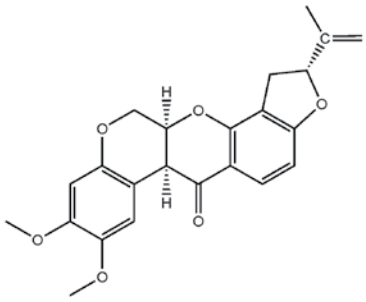


GROUP II
USES 6, 9, 12, 13

Rotenone

BIOC-183N-10MG	10 mg			**GROUP**	III
				USES	17

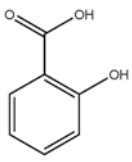
CAS 83-79-4 **MF** $C_{23}H_{22}O_6$ **MW** 394.42



Salicylic acid

BIOC-008N-25MG	25 mg			**GROUP**	I, II
				USES	1, 2, 3, 4, 6

CAS 69-72-7 **MF** $C_7H_6O_3$ **MW** 138.12



Silicium dioxide

BIOC-233N	100 mg		A form of silicon dioxide composed of skeletons of prehistoric aquatic plants	**GROUP**	III
				USES	18

CAS 61790-53-2

Silicon dioxide

BIOC-111N	100 mg		SiO_2	**GROUP**	I, III, IV
				USES	3, 18, 20

CAS 7631-86-9 **MF** SiO_2 **MW** 60.08

Silver

BIOC-088S	1000 µg/mL in	100 mL	Ag	**GROUP**	I, II
	tr. Nitric acid in Water			**USES**	2, 4, 5, 9, 11

CAS 7440-22-4 **MF** Ag **MW** 107.87

Silver chloride

BIOC-042N	100 mg		AgCl	**GROUP**	I, II
				USES	1, 2, 3, 4, 5, 6, 7, 9, 10, 11 13

CAS 7783-90-6 **MF** AgCl **MW** 143.32

Silver nitrate

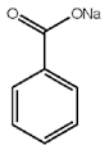
BIOC-040N	100 mg		$AgNO_3$	**GROUP**	I
				USES	1

CAS 7761-88-8 **MF** $AgNO_3$ **MW** 169.87

Sodium benzoate

BIOC-023N	100 mg			**GROUP**	I, II, IV
				USES	1, 2, 6, 11, 20

CAS 532-32-1 **MF** $C_7H_5NaO_2$ **MW** 144.10



Sodium bisulfite

BIOC-034N-1G	1 gram		$NaHSO_3$	**GROUP**	I, II, IV
				USES	1, 2, 4, 5, 6, 9, 11, 12, 13, 20, 22

CAS 7631-90-5 **MF** $HNaO_3S$ **MW** 104.06

Sodium bromide

BIOC-091N 100 mg

NaBr

CAS 7647-15-6 **MF** NaBr **MW** 102.89

GROUP I, II
USES 2, 4, 6, 7, 9, 11, 12, 13

Sodium chlorate

BIOC-093N 100 mg

$NaClO_3$

CAS 7775-09-9 **MF** $NaClO_3$ **MW** 106.44

GROUP I, II
USES 2, 5, 11, 12

Sodium chloride

BIOC-120N 100 mg

NaCl

CAS 7647-14-5 **MF** NaCl **MW** 58.44

GROUP I
USES 5

Sodium chlorite

BIOC-092N 100 mg

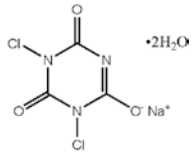
$NaClO_2$

CAS 7758-19-2 **MF** $NaClO_2$ **MW** 90.44

GROUP I, II, IV
USES 2, 3, 4, 5, 11, 12, 20

Sodium dichloroisocyanurate dihydrate

BIOC-028N 100 mg

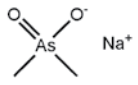


CAS 51580-86-0 **MF** $C_3H_4Cl_2N_3NaO_5$ **MW** 255.98

GROUP I, II
USES 1, 2, 3, 4, 5, 6, 9, 11, 12

Sodium dimethylarsinate

BIOC-194N-10MG 10 mg

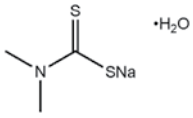


CAS 124-65-2 **MF** $C_2H_6AsNaO_2$ **MW** 159.98

GROUP III
USES 18

Sodium dimethyldithiocarbamate hydrate

BIOC-070N 100 mg



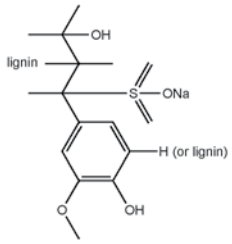
Anhydrous Basis

CAS 207233-95-2 **MF** $C_3H_6NNaS_2$ **MW** 143.21

GROUP I, II
USES 2, 3, 4, 5, 6, 9, 10, 11, 12, 13

Sodium lignosulfonate (Tech)

BIOC-171N 100 mg



CAS 8061-51-6

GROUP II
USES 12

Sodium metabisulfite

BIOC-036N-1G 1 gram

$Na_2S_2O_5$

CAS 7681-57-4 **MF** $Na_2O_5S_2$ **MW** 190.11

GROUP I, II, IV
USES 1, 2, 4, 5, 6, 9, 11, 12, 13, 20, 22

Biocides

Sodium persulfate

BIOC-118N 100 mg

$Na_2S_2O_8$

GROUP I

USES 4

CAS 7775-27-1 **MF** $Na_2O_8S_2$ **MW** 238.10

Sodium sulphite

BIOC-038N-1G 1 gram

Na_2SO_3

GROUP I, II, IV

USES 1, 2, 4, 5, 6, 9, 11, 12, 13, 20, 22

CAS 7757-83-7 **MF** Na_2O_3S **MW** 126.04

Sodium tetraborate

BIOC-025N 100 mg

$Na_2B_4O_7$

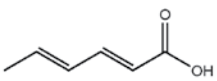
GROUP I, II

USES 1, 2, 7, 8, 9, 10, 11, 13

CAS 1330-43-4 **MF** $Na_2B_4O_7$ **MW** 201.22

Sorbic acid

BIOC-015N 100 mg



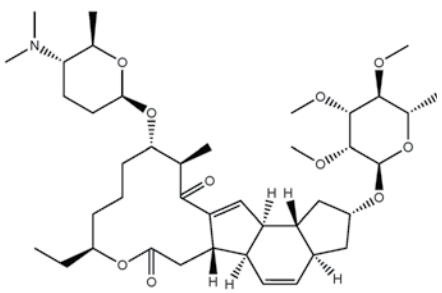
GROUP I, II

USES 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

CAS 110-44-1 **MF** $C_6H_8O_2$ **MW** 112.13

Spinosad (Tech)

BIOC-113N-10MG 10 mg



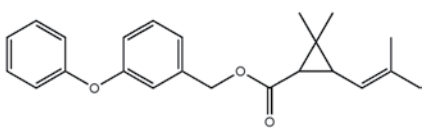
GROUP I, III

USES 3, 18

CAS 168316-95-8

Sumithrin

BIOC-238N-10MG 10 mg



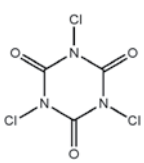
GROUP III

USES 18

CAS 26002-80-2 **MF** $C_{23}H_{26}O_3$ **MW** 350.45

Symclosene

BIOC-060N 100 mg



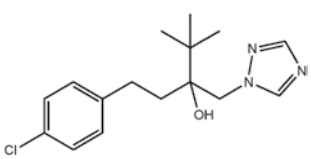
GROUP I, II

USES 2, 3, 4, 5, 6, 7, 9, 11, 12

CAS 87-90-1 **MF** $C_3Cl_3N_3O_3$ **MW** 232.41

Tebuconazol

BIOC-149N-10MG 10 mg



GROUP II

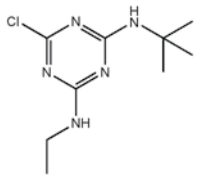
USES 7, 8, 9, 10

CAS 107534-96-3 **MF** $C_{16}H_{22}ClN_3O$ **MW** 307.82

Terbuthylazine

BIOC-087N-10MG	10 mg	

CAS 5915-41-3 **MF** $C_9H_{16}ClN_5$ **MW** 229.71

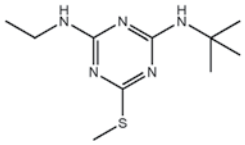


GROUP I, II
USES 2, 11, 12

Terbutryn

BIOC-145N-10MG	10 mg	

CAS 886-50-0 **MF** $C_{10}H_{19}N_5S$ **MW** 241.36

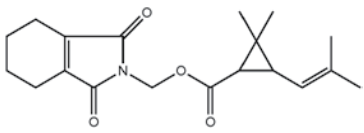


GROUP II
USES 7, 9, 10

Tetramethrin

BIOC-207N-10MG	10 mg	

CAS 7696-12-0 **MF** $C_{19}H_{25}NO_4$ **MW** 331.41

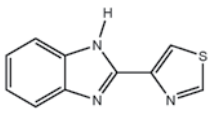


GROUP III
USES 18

Thiabendazole

BIOC-076N-10MG	10 mg	

CAS 148-79-8 **MF** $C_{10}H_7N_3S$ **MW** 201.25

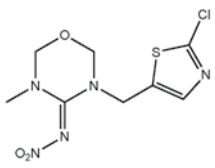


GROUP I, II, IV
USES 2, 6, 7, 8, 9, 10, 11, 12, 13, 20

Thiamethoxam

BIOC-159N-10MG	10 mg	

CAS 153719-23-4 **MF** $C_8H_{10}ClN_5O_3S$ **MW** 291.72

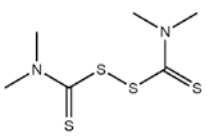


GROUP II, III
USES 8, 9, 18

Thiram

BIOC-071N	100 mg	

CAS 137-26-8 **MF** $C_6H_{12}N_2S_4$ **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** $[P(CH_2OH)4]_2SO_4$ **MW** 406.28

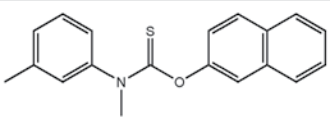
$[P(CH_2OH)_4]_2SO_4$

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

Tolnaftate

BIOC-164N-25MG	25 mg	

CAS 2398-96-1 **MF** $C_{19}H_{17}NOS$ **MW** 307.41



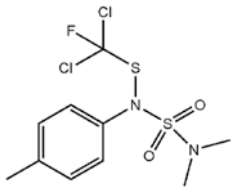
GROUP II
USES 9

Biocides

Tolylfluanide

BIOC-144N-10MG	10 mg	

CAS 731-27-1 **MF** $C_{10}H_{13}Cl_2FN_2O_2S_2$ **MW** 347.26



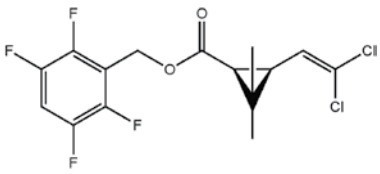
GROUP II, IV

USES 7, 8, 10, 21

Transfluthrin

BIOC-225N-10MG	10 mg	

CAS 118712-89-3 **MF** $C_{15}H_{12}Cl_2F_4O_2$ **MW** 371.15



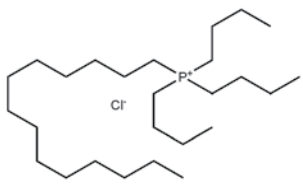
GROUP III

USES 18

Tributyltetradecylphosphonium chloride

BIOC-105N	100 mg	

CAS 81741-28-8 **MF** $C_{26}H_{56}ClP$ **MW** 435.15



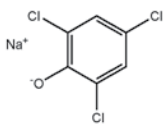
GROUP I, II

USES 2, 4, 9, 11, 12

2,4,6-Trichlorophenol sodium salt

BIOC-084N	100 mg	

CAS 3784-03-0 **MF** $C_6H_2Cl_3NaO$ **MW** 219.43



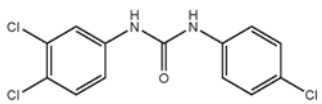
GROUP I, II

USES 2, 3, 6, 9

Triclocarban

BIOC-014N-25MG	25 mg	

CAS 101-20-2 **MF** $C_{13}H_9Cl_3N_2O$ **MW** 315.58



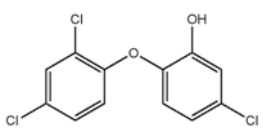
GROUP I

USES 1, 2, 4

Triclosan

BIOC-029N	100 mg	

CAS 3380-34-5 **MF** $C_{12}H_7Cl_3O_2$ **MW** 289.54



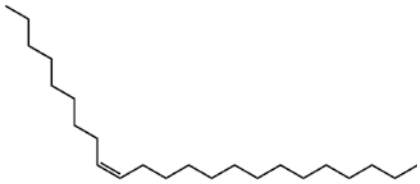
GROUP I, II

USES 1, 2, 3, 7, 9

cis-Tricos-9-ene

BIOC-213N	100 mg	

CAS 27519-02-4 **MF** $C_{23}H_{46}$ **MW** 322.61



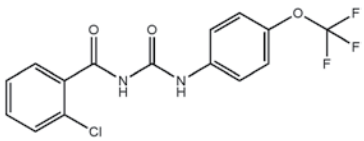
GROUP III

USES 18, 19

Triflumuron

BIOC-220N-10MG	10 mg	

CAS 64628-44-0 **MF** $C_{15}H_{10}ClF_3N_2O_3$ **MW** 358.70



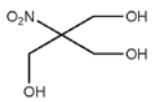
GROUP III

USES 18

Tris(hydroxymethyl)nitromethane

BIOC-068N 100 mg

CAS 126-11-4 **MF** $C_4H_9NO_5$ **MW** 151.12

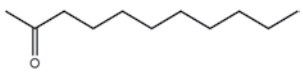


GROUP I, II
USES 2, 3, 6, 11, 12, 13

Undecan-2-one (Methyl-nonyl-ketone)

BIOC-189S-CN 100 µg/mL in Acetonitrile 1 mL

CAS 112-12-9 **MF** $C_{11}H_{22}O$ **MW** 170.29

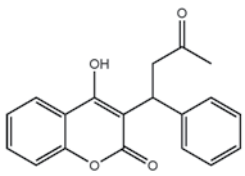


GROUP III
USES 19

Warfarin

BIOC-172N-10MG 10 mg

CAS 81-81-2 **MF** $C_{19}H_{16}O_4$ **MW** 308.33

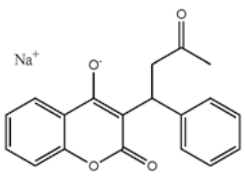


GROUP III
USES 14

Warfarin sodium

BIOC-174N 100 mg

CAS 129-06-6 **MF** $C_{19}H_{15}NaO_4$ **MW** 330.31



GROUP III
USES 14

Zinc borate (Tech)

BIOC-166N 100 mg

CAS 12767-90-7

$3ZnO \cdot 2B_2O_3$

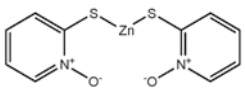
Typical composition: Zinc oxide 45%,
Boric anhydride 34%, Water hydration 20%

GROUP II
USES 9

Zinc pyrithione

BIOC-096N 100 mg

CAS 13463-41-7 **MF** $C_{10}H_8N_2O_2S_2Zn_2$ **MW** 317.69



GROUP I, II, IV
USES 2, 6, 7, 9, 10, 13, 21

Zinc sulfide

BIOC-147N 100 mg

CAS 1314-98-3 **MF** ZnS **MW** 97.44

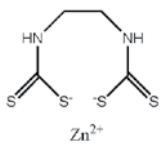
ZnS

GROUP II
USES 7, 9, 10

Zineb

BIOC-210N-10MG 10 mg

CAS 12122-67-7 **MF** $C_4H_6N_2S_4Zn$ **MW** 275.76

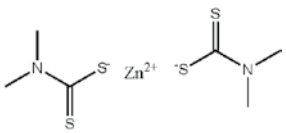


GROUP IV
USES 21

Ziram

BIOC-072N-10MG 10 mg

CAS 137-30-4 **MF** $C_6H_{12}N_2S_4Zn$ **MW** 305.83



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

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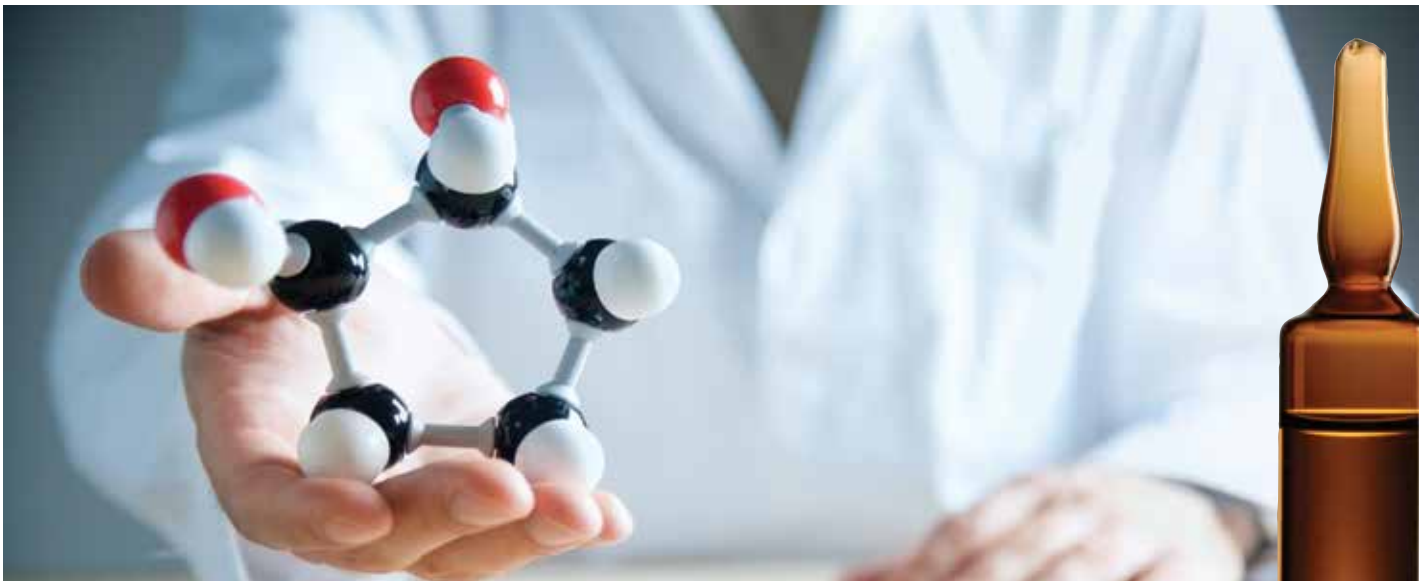

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- AccuStandard's liability will be limited to, replacement of product or refund of purchase price.
- Notice of claims must be made within thirty (30) days from the date of delivery.

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