

Pesticides Class of potential impact - CIP

An indicator to drive sustainable choices

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*Firenze
febbraio 2017*



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PESTICIDES - CLASS OF POTENTIAL IMPACT (CIP) AN INDICATOR TO DRIVE SUSTAINABLE CHOICES

Abstract

It is proposed the Class of Potential Impact (CIP), an indicator to be associated to the amount of used pesticides to represent the degree of environmental pressure generated by a multitude of products characterized by very different environmental properties. The CIP for more than 570 active substances is elaborated using environmental, eco-toxicological and toxicological data derived from Pesticide Properties Database (PPDB). The CIP, alone or associated with the amount of pesticides, may constitute a guide to drive the choices in the environmental sustainability and in the policies of impact reduction by pesticides. It can be applied as a support during the design phase of territorial planning (eg rural development plans) or sector (eg water management plans, regulations for protected areas) aimed at greater environmental protection and also as an instrument of monitoring and evaluation of the result of sustainable strategies in agriculture.

Keywords: pesticides, pesticide sustainable use, environmental pressure

The amount of used pesticides is in itself a good indicator of the pressure exerted on the environment from agricultural activities. But not all pesticides are equal before the environment and the health.

It's easy to understand that a kilo of active substance characterized by high bioconcentration factor, high toxicity towards fish and high persistence represents a higher pressure on the environment and a higher hazard than that carried by an identical kilo of active substance readily biodegradable and of low toxicity to living species.

In a previous contribution (1) it has been proposed an indicator called Class of Potential Impact (CIP) to associate with the amount of used pesticides as "environmental specific weight", to better enhance the degree of environmental pressure generated by a multitude of products on the market characterized by very different properties and characteristics.

In this contribution, this indicator has been further enriched with chronic toxicity data against various animal species, carcinogenicity and mutagenicity data and has been calculated for new active substances recently introduced in the market.

For a list of more than 570 active substances (see attached list) we calculated the potential impact class (CIP) for both single receptor/properties by sector (water, ecosystem, health), also indicating the category phytoiatric, the No. CAS and the current administrative status (revoked/authorized/unauthorized substance).

The substances present in the list belong to the organic synthetic substances which historically represent a potential risk of water contamination, as evidenced by the results of monitoring in recent years in Italy (2).

It does not include the products based on copper and sulfur, also if not entirely without impact on the environment, they are compatible with organic farming and then are credited as environmentally sustainable.

The proposed indicator has multiple uses and can provide guidance to drive environmental sustainable choices in policies for reducing the impact from pesticides in certain territories and in particular contexts for protecting determined receptors.

Alone or associated with the used amount of pesticides, the indicator can be applied at different scales, as a support during the design phase of territorial planning at greater environmental and health protection (eg rural development plans) or sector (eg water management plans, the

regulations for protected areas) as well as a tool for monitoring and evaluation of the result of sustainable policies in agriculture.

To process the CIP indicator have been used environmental properties, toxicological and ecotoxicological data derived from the Pesticide Properties Database- PPDB- (3), established a few years ago as part of a research project funded by the European Commission.

It is one of the data banks among the most reliable and complete in the field of pesticides, available on-line and, especially, of simple and immediate consultation.

The table below shows the indicators generally used to describe the main environmental properties, eco-toxicological and toxicological properties of a chemical along with the thresholds suggested by the authors of PPDB, to differentiate their hazard to determined receptors.

It is a total of 22 indicators, of which 6 are correlated to the water sector, 11 to ecosystem sector and 5 to the health sector, which we judged to be sufficiently representative to describe any adversity towards the respective sectors.

Taking into account the indicated thresholds, it is assigned a class of potential impact (CIP) low, moderate or high, respectively CIP "1", "2" or "3", for each receptor/properties. It is assigned the class "0" (zero) if there is no available data.

Indicators of environmental, eco-toxicological and toxicological properties, potential impact potential class (CIP) with respective thresholds

	Indicatore	Proprietà ambientale, eco-tossicologica, tossicologica	Potential Impact Class (CIP)			
			0	1	2	3
			no data	low	moderate	high
1	water solubility at 20°C (mg/l)	affinity to water		≤50	50-500	>500
2	Koc (ml/g)	soil mobility		>500	75-500	≤75
3	DT50 soil (day)	soil persistence		≤30	30-100	>100
4	DT50 water – hydrolysis at pH7 (day)	water persistence		≤30	30-100	>100
5	DT50 sediment (day)	sediment persistence		≤30	30-100	>100
6	GUS	leachability		<1,8	1,8-2,8	>2,8
7	log Kow	like to bioaccumulate		≤2,7	2,7-3	>3
8	LD50 acute mammal (oral mg/kg BW/day)	mammalian toxicity		≥2000	100-2000	<100
9	NOEL- Short term dietary (mg/kg)			≥2000	100-2000	<100
10	LD50 acute bird (mg/kg)	bird toxicity		≥2000	100-2000	<100
11	LC50 acute fish (96h-mg/l)	fish toxicity		≥100	0,1-100	<0,1
12	NOEC Chronic 21 day (mg/l) fish			>10	0,01-10	<0,01
13	EC50 acute aquatic invertebrates (48h mg/l)	aquatic invertebrates toxicity		≥100	0,1-100	<0,1
14	NOEC 21 day (mg/l) aquatic invertebrates			>10	0,01-10	<0,01
15	LD50 acute honeybee (48h ug/bee; oral/contact)	honeybee toxicity		≥100	1-100	<1
16	LC50 acute earthworms (14d mg/kg)	earthworm toxicity		≥1000	10-1000	<10
17	NOEC 14 day earthworm reproduction (mg/kg)			>100	0,1-100	<0,1
18	ADI (mg/kg bw) (*)	acceptable daily intake		>0,1	0,01-0,1	≤0,01
19	endocrine disruptor	effects on the endocrine system		no	possible	yes
20	effects on the reproduction system	effects on the reproduction system		no	possible	yes
21	mutagenesis	mutagenic effects		no	possible	yes
22	carcinogenesis	cancerogenic effects		no	possible	yes

(*) threshold values proposed by author

The indicators from 1 to 6 relate to the Water Sector and describe the hazard of residuality in this matrix.

The 7 to 17 indicators refer to the Ecosystem Sector and describe the hazard to this matrix by evaluating the acute and chronic toxicity levels against six animal species and the ability of the substance to bioaccumulate (Kow).

Indicators 18 to 22 refer to the Health Sector and especially concerning the long-term effects. It must be said that this sector there are many information gaps, that many "0" classes (no available data), especially the effects on the endocrine and reproductive system. For carcinogenic effects it has also consulted the IARC classification, which, when present, was considered prevalent: if the substance is classified 2A then CIP = 3, if classified 2B then CIP = 2, if classified 3 then CIP = 1.

For carcinogenesis, the PPBD also considers the EPA classification and the European harmonized classification.

Populating the scheme taking into account the particular values for each indicator, it is possible to obtain for each active substance a profile both qualitative and quantitative.

Take for example the active substance glyphosate whose qualitative profile is that reported in the table.

CIP - quality profile for the active substance glyphosate

	Indicatore	Proprietà ambientale, eco-tossicologica, tossicologica	Potential Impact Class (CIP)			
			0	1	2	3
			no data	low	moderate	high
1	water solubility at 20°C (mg/l)	affinity to water				x
2	Koc (ml/g)	soil mobility		x		
3	DT50 soil (day)	soil persistence		x		
4	DT50 water – hydrolysis at pH7 (day)	water persistence				x
5	DT50 sediment (day)	sediment persistence			x	
6	GUS	leachability		x		
7	log Kow	like to bioaccumulate		x		
8	LD50 acute mammal (oral mg/kg BW/day)	mammalian toxicity			x	
9	NOEL- Short term dietary (mg/kg)				x	
10	LD50 acute bird (mg/kg)	bird toxicity		x		
11	LC50 acute fish (96h-mg/l)	fish toxicity			x	
12	NOEC Chronic 21 day (mg/l) fish			x		
13	EC50 acute aquatic invertebrates (48h mg/l)	aquatic invertebrates toxicity			x	
14	NOEC 21 day (mg/l) aquatic invertebrates			x		
15	LD50 acute honeybee (48h ug/bee; oral/contact)	honeybee toxicity			x	
16	LC50 acute earthworms (14d mg/kg)	earthworm toxicity			x	
17	NOEC 14 day earthworm reproduction (mg/kg)				x	
18	ADI (mg/kg bw) (*)	acceptable daily intake			x	
19	endocrine disruptor	effects on the endocrine system	x			
20	effects on the reproduction system	effects on the reproduction system		x		
21	mutagenesis	mutagenic effects		x		
22	carcinogenesis	cancerogenic effects				x

In the case of glyphosate, out of a total of 22 indicators, three indicators have CIP = 3, nine indicators have CIP = 2, nine indicators have CIP = 1 and one indicator has CIP = 0.

To obtain a quantitative profile, to each indicator is assigned a score 1, 2 or 3 equal to the potential impact of the respective class. To the class "0" (no data), security purposes, it is assigned a score of 3. It then performs the summation of separate data obtained by sector.

Further processing the results we got the potential impact class (CIP) of each sector (water, ecosystem, helath) divided into 5 hazard classes.

CIP for WATER sector

You run the summation of the CIP of the 6 indicators related to the sector, it is estimated the prevalence of CIP =1 and CIP = 3 over other classes and assign the CIP according to the diagram in shown the table.

SUM VALUE	MIN	MAX	CONDITIONS		CIP OF SECTOR	
	6	9			1	LOW
	10	14	n° CIP 1 ≥ n° CIP 2	TRUE	2	MEDIUM-LOW
			n° CIP 1 ≥ n° CIP 3	TRUE	3	
					3	MEDIUM
			n° CIP 3 ≥ n° CIP 1	TRUE	4	MEDIUM-HIGH
			n° CIP 3 ≥ n° CIP 2	TRUE	4	
	15	18			5	HIGH

CIP for ECOSYSTEM sector

In the presence of acute and chronic toxicity data, it is chosen as a precautionary measure the worst case and assigned the corresponding CIP. You run the summation of the CIP of the 7 indicators related to the sector, it is estimated the prevalence of CIP =1 and CIP = 3 over other classes and assign the CIP according to the diagram in shown the table.

SUM VALUE	MIN	MAX	CONDITIONS		CIP OF SECTOR	
	7	11			1	LOW
	12	16	n° CIP 1 ≥ n° CIP 2	TRUE	2	MEDIUM-LOW
			n° CIP 1 ≥ n° CIP 3	TRUE		
					3	MEDIUM
			n° CIP 3 ≥ n° CIP 1	TRUE	4	MEDIUM-HIGH
			n° CIP 3 ≥ n° CIP 2	TRUE		
	17	21			5	HIGH

CIP for HEALTH sector

If there is even one indicator CIP = 3, however, it is assigned a class of potential impact "HIGH" to the health sector.

It runs the summation of the CIP of the 5 indicators related to the sector and assigns the CIP according to the diagram shown in the table.

SUM VALUE	MIN	MAX	CONDITIONS	CIP OF SECTOR	
			If at least one CIP=3	5	HIGH
	14	15			
	12	13		4	MEDIUM-HIGH
	10	11		3	MEDIUM
	8	9		2	MEDIUM-LOW
	5	7		1	LOW

Continuing with the example of glyphosate, the final profile which is obtained is the one shown in the table.

CIP - quali-quantitative profile for the active substance glyphosate

ACTIVE SUBSTANCE	water affinity	soil persistence	Soil mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
GLYPHOSATE	3	1	1	3	2	1	2	2	1	2	2	2	2	1	3	0	1	1	1	3	5

Using the proposed indicator CIP, many active substances can be compared with each other, both in preventive phase, if desired, for example, choosing between more products of similar agronomic use that to lower receptor impact or lower sector impact, either in final phase, having, for example, to calculate the pressure exerted on a given territory and in a given time period through the "effective" amount of pesticides, taking account of the nominal used amount and the corresponding CIP, using it as a multiplicative factor.

Multiplying the nominal used quantity Q of active substance "a" with the respective CIP of receptor/sector, you get the "effective amount" Q_{eff} of the substance "a" corresponding to that receptor or sector.

$$\begin{array}{llll}
 Q_a * CIP_a & = & Q_a \text{ eff.} & \text{where } Q_{a, b, \dots, z} = \text{nominal amount of used pesticide a, b.. z} \\
 Q_b * CIP_b & = & Q_b \text{ eff.} & CIP_{a, b, \dots, z} = \text{CIP receptor/sector of pesticide a, b.. z} \\
 Q_c * CIP_c & = & Q_c \text{ eff.} & Q_{a, b, \dots, z} \text{ eff.} = \text{effective amount of pesticide a, b... z} \\
 \dots\dots\dots & & & \\
 Q_z * CIP_z & = & Q_z \text{ eff.} &
 \end{array}$$

Adding the effective amount of each active substance used, you get the Total Effective Amount.

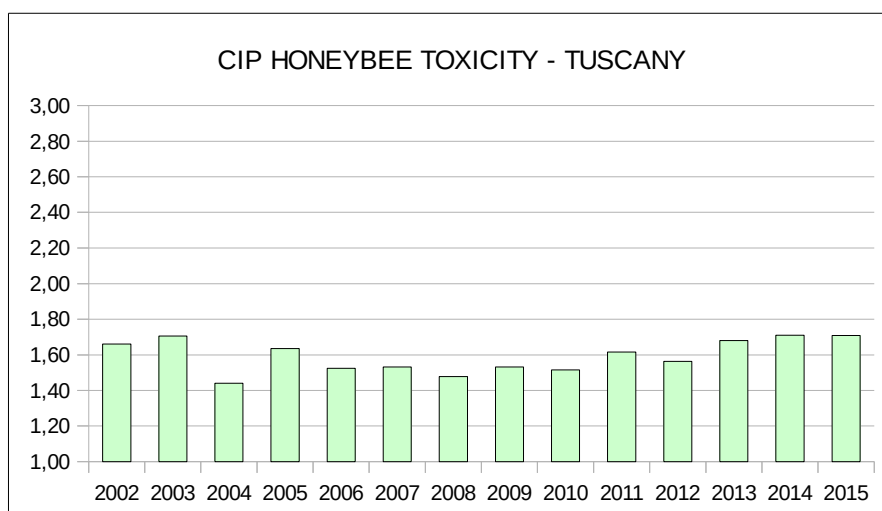
$$Q_a \text{ eff.} + Q_b \text{ eff.} + \dots + Q_z \text{ eff.} = Q \text{ eff. Total}$$

The total effective amount obtained, divided the total nominal amount, returns the CIP average to single receptor or sector.

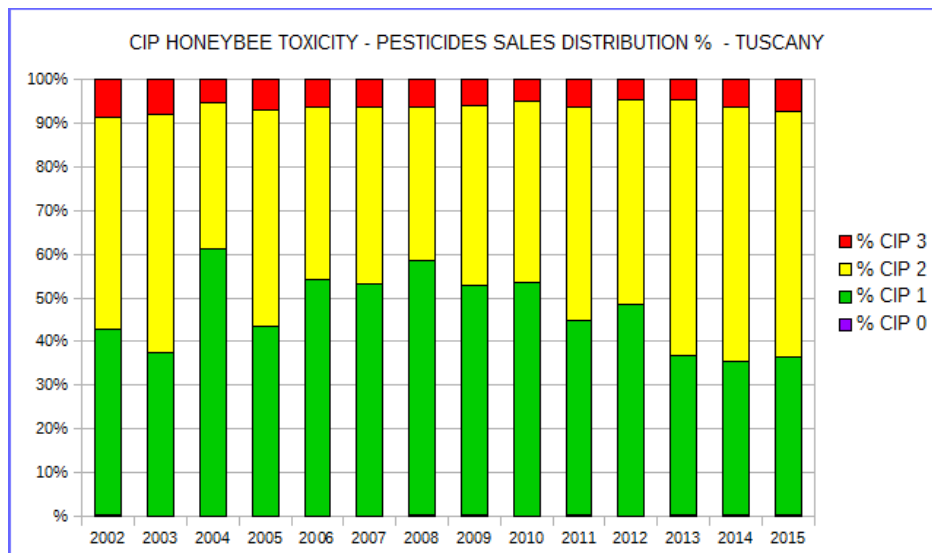
$$Q \text{ effective total} / Q \text{ nominal total} = \text{CIP average}$$

Following are some examples of application of the **CIP** indicator.

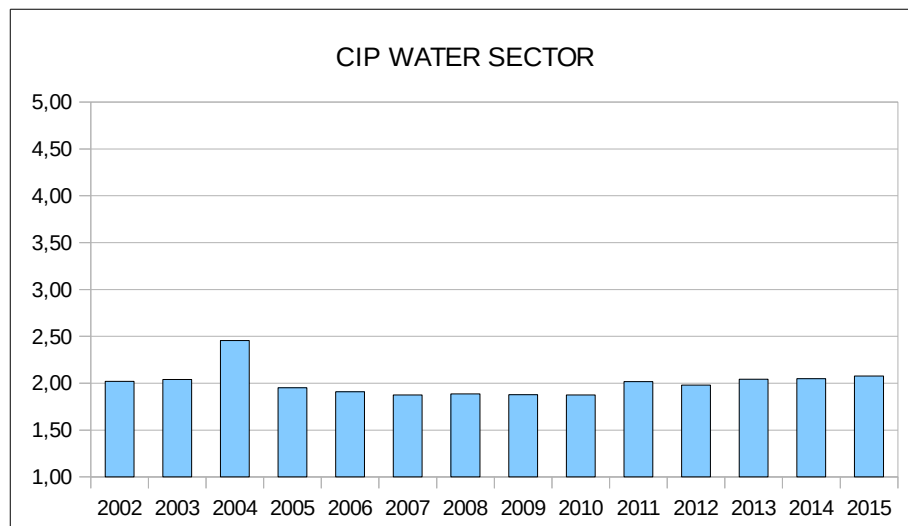
In Tuscany the potential impact against honeybees, contrary to the expected, has gradually grown over the years, reaching in 2015 the highest of the last 10 years.



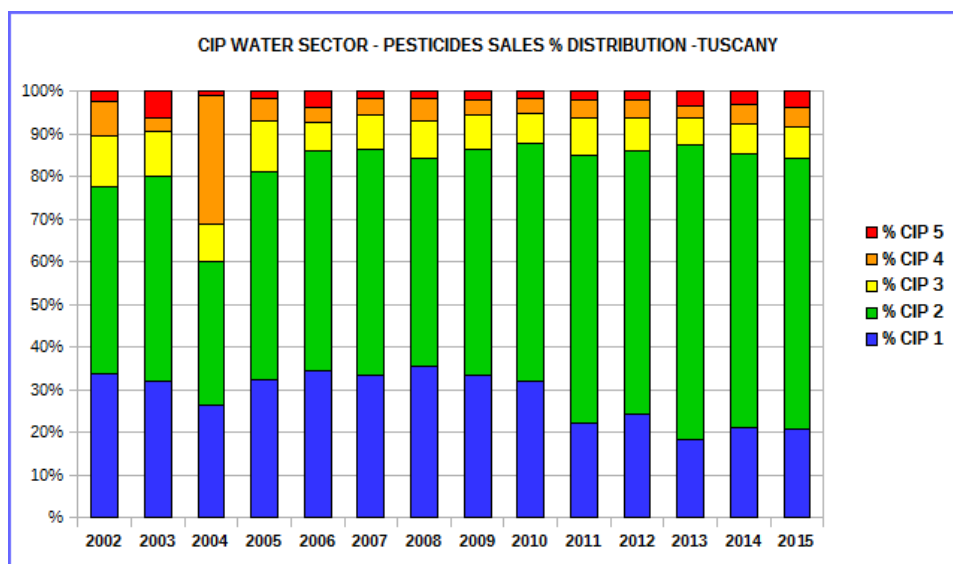
As we can see in the chart below, the sales of pesticides with low potential impact for bees (CIP = 1) have been gradually reduced since 2008. Even if only slightly (a few percentage point) are increased the sales of pesticides with high potential impact (CIP = 3).



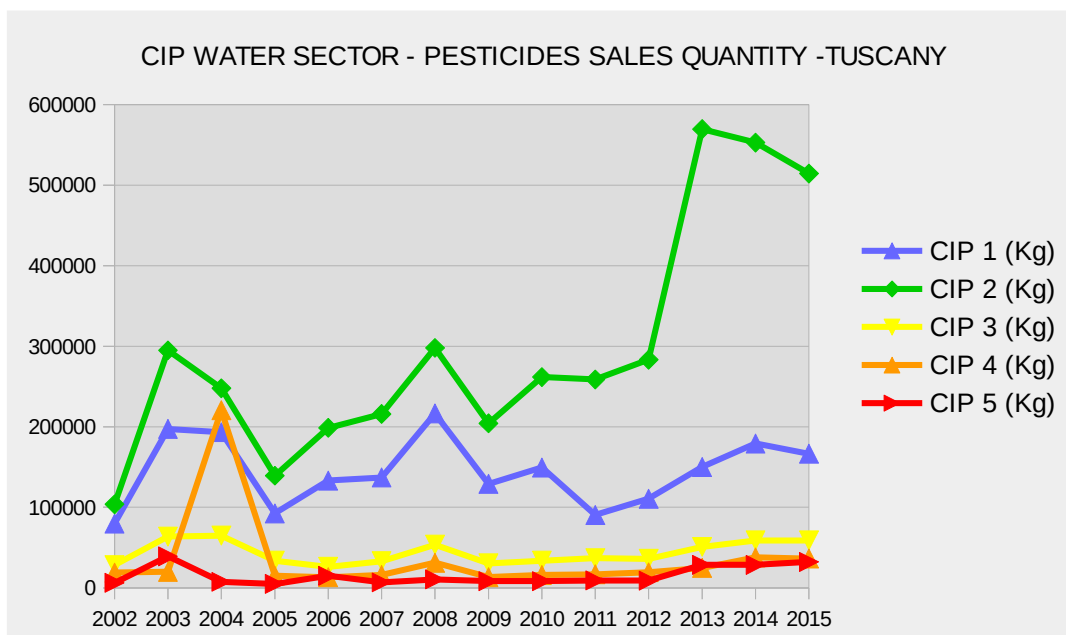
Compared to the hazard of resuadility in the water of pesticides, in Tuscany we record a medium-lower potential impact level (CIP just over 2 in 2013-15).



For ten years, less than 20% of the sold amount of synthetic organic pesticides in Tuscany is represented by active substances with $CIP \geq 3$.

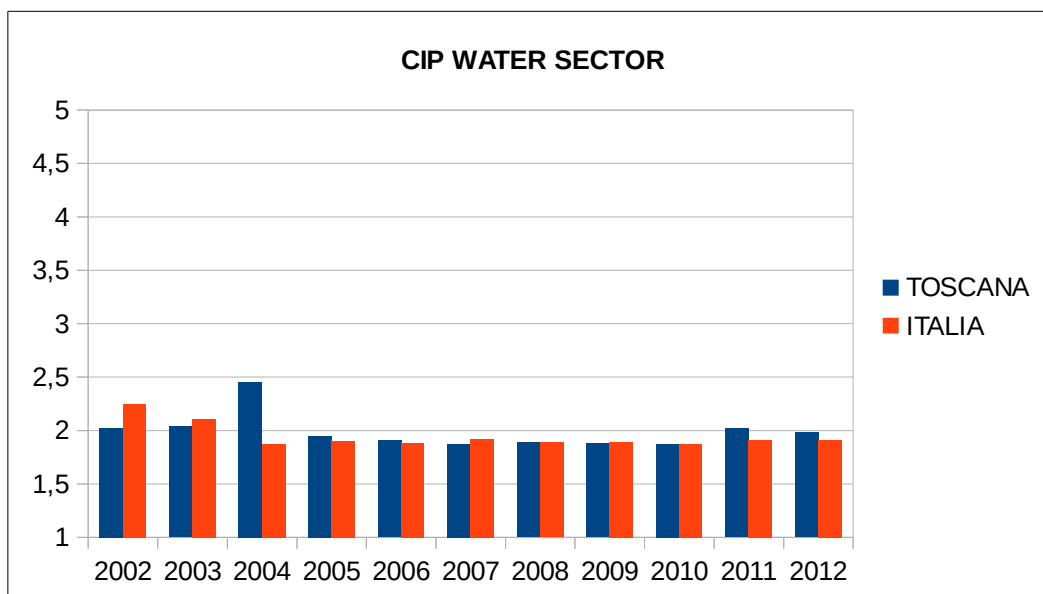


In 2015 the amount of pesticides with Water Sector CIP 1 or 2 was of 680 tons, the amount of pesticides with CIP 3 to 5 was 127 tons.



The CIP of the water sector in Tuscany is slightly greater than that registered in Italy, reversing a trend of substantial equality forged over the previous five years.

We can not correlate most recent sales data, because the SIAN (National Agricultural Information System) since 2012 does not publish any sales data and ISTAT does not publish data in disaggregated form, as necessary, for reasons of statistical secrecy.

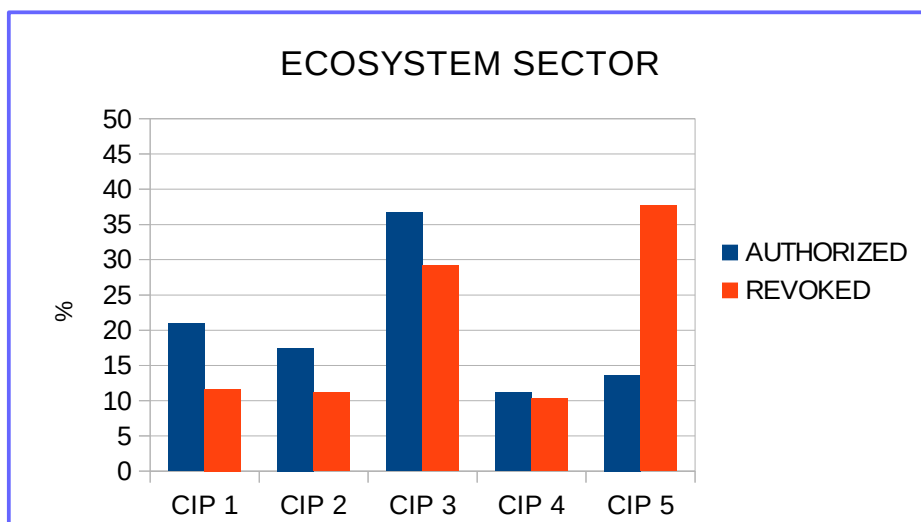


If we compare the sales of pesticides in Tuscany and in Italy from 2002 to 2012 (see table below) we can see that the amount of pesticides in Tuscany with water sector CIP 3 to 5 has always been a percentage lower than in Italy, where instead are, always, the most relevant sales of low potential impact pesticides (CIP = 1).

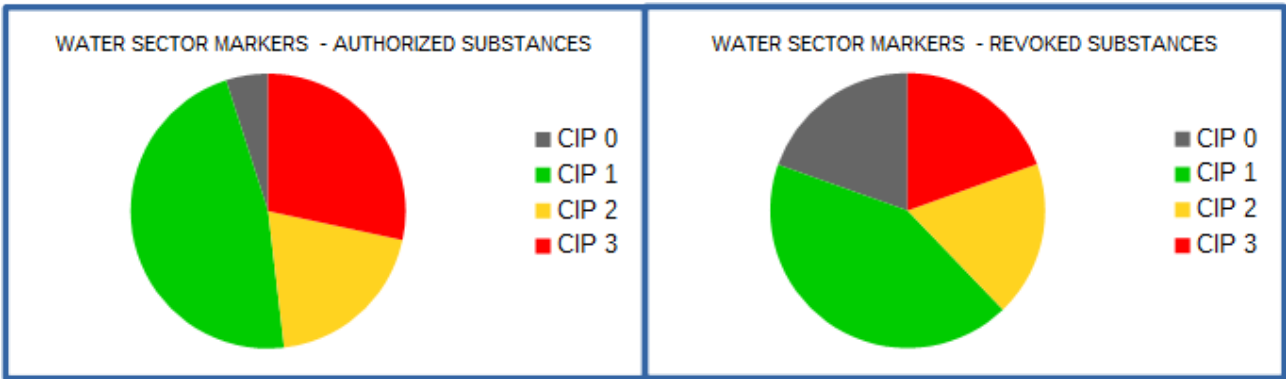


It's interesting to note that in recent years there has been an overall positive evolution, due to the gradual revocation in Europe of the older generation active substances.

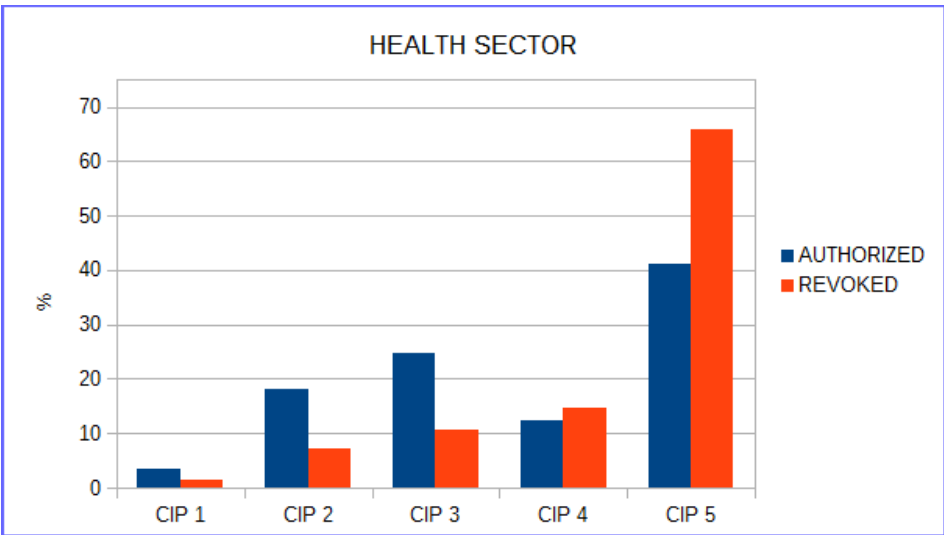
As can be seen from the following graph, many active substances CIP = 5 for Ecosystem sector were withdrawn in favor of active substances characterized by CIP=1 and CIP=2.



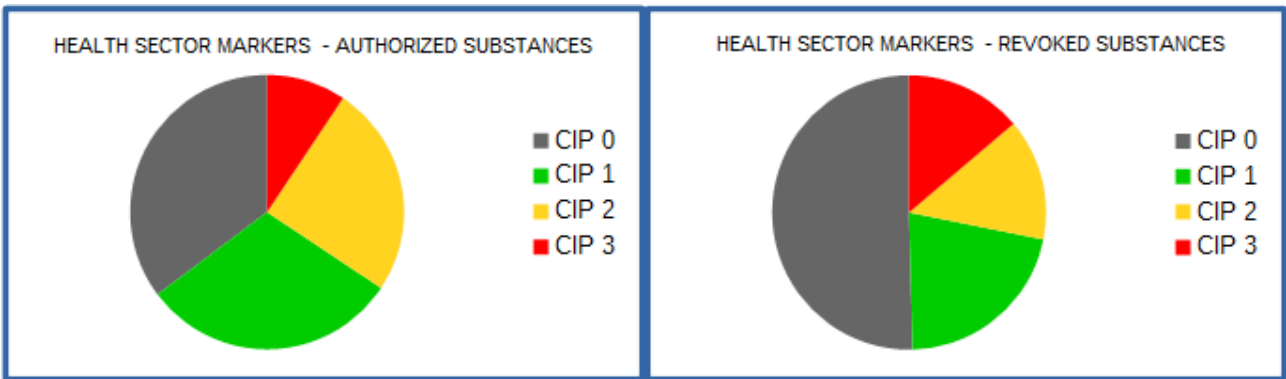
In authorized products the number of CIP = 0 (no data) among the indicators of receptor/properties that contribute to the Ecosystem sector CIP is greatly decreased (4%) compared with revoked products (15%), while it significantly increased the number of indicators of receptor/properties with CIP = 1 (33% compared to 23%).



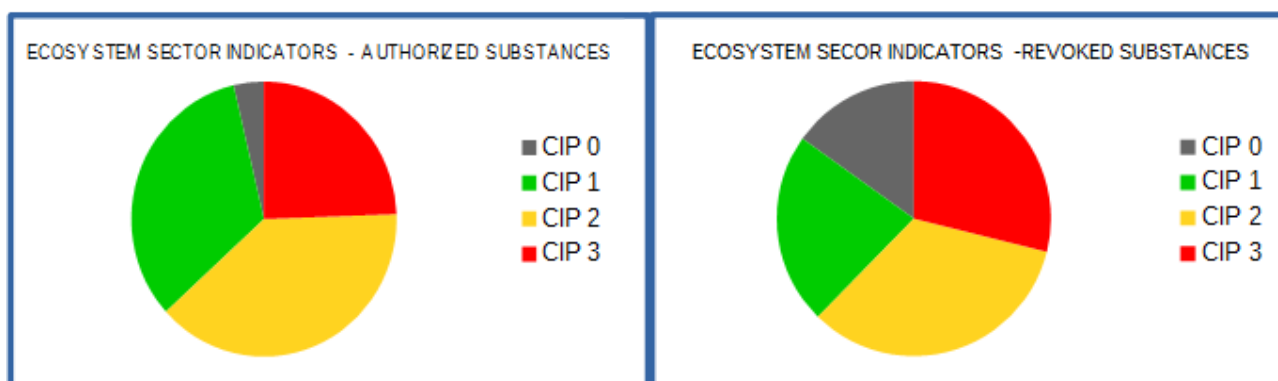
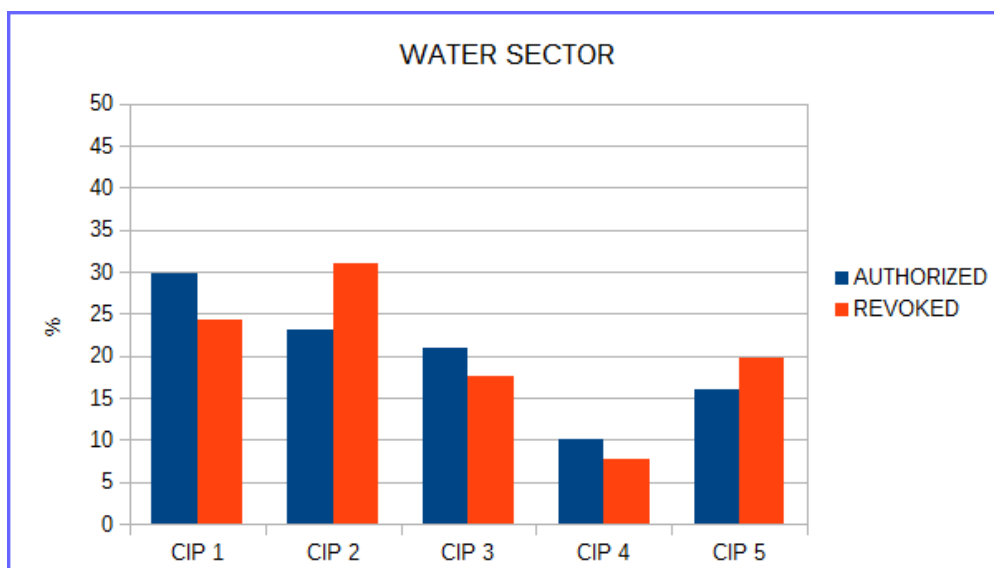
A similar trend can be appreciated for the Health Sector. The large number of active substances with CIP 4 to 5 has decreased in favor of an increase of active substances with CIP 1 to 3.



In this case remains, although in percentage decreased, the high number of CIP = 0 for receptor /property indicators of authorized products (35%) than those revoked (50%).



The improvement towards the water sector on the highest impact class (CIP = 3) it's less evident than the previous cases. Drop from 20% to 5% of the cases the absence of data, increased from 20% to 28% the set of indicators of receptor / properties with CIP = 3.



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- (2) <http://www.isprambiente.gov.it/it/pubblicazioni/rapporti/rapporto-nazionale-pesticidi-nelle-acque-2013-dati-2013-2014>
- (3) <http://sitem.herts.ac.uk/aeru/ppdb/en/atoz.htm>

PESTICIDES - CLASS OF POTENTIAL IMPACT - CIP

LEGEND

POTENTIAL IMPACT CLASS (CIP) TO SINGLE RECEPTOR/PROPERTY

0	No data
1	low
2	moderate
3	high

POTENTIAL IMPACT CLASS (CIP) TO MATRIX/SECTOR

1	low
2	medium-low
3	medium
4	medium-high
5	high

A	acaricide
Af	aficide
Al	algaecide
Au	other uses
B	bactericide
D	dessiccant
E	herbicide
Fm	fumigant
I	insecticide
Me	metabolite
Mo	molluscidicide
N	nematocide
R	repellent
Re	growth regulator
Ro	rodenticide
S	synergist
T	wood preservative

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoil mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
1-METILCICLOPROPENE (1-MCP)	1	3100-04-7	R	2	1	3	3	0	2	4	3	0	2	2	0	2	1	3	0	0	3	1	2	5
1,1-DICLORO-2,2-BIS(4-ETIL-FENIL)ETANO (PERTANE)	5	72-56-0	I	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	0	0	0	3	0	5
1,2-DICLOROPROPANO	5	78-87-5	I,N,Fm	3	3	3	3	0	3	5	2	0	1	2	0	1	1	2	0	3	0	0	3	5
1,3-DICLOROPROPENE	5	542-75-6	N	3	1	3	1	1	2	2	3	2	2	2	2	2	1	3	0	0	2	0	1	4
2,4-D	1	94-75-7	E,R,Me	3	1	3	3	1	1	3	3	2	2	1	2	2	1	3	2	3	2	1	1	5
2,4-DB	1	94-82-6	E	3	1	2	3	1	1	2	3	2	2	2	1	1	1	2	2	1	2	2	1	2
6-BENZILADENINA	1	1214-39-7	R	3	2	0	3	0	0	5	1	1	2	2	1	0	1	1	0	0	2	0	0	5
8-IDROSSICHINOLINA SOLFATO	2	134-31-6	F,B	3	1	0	3	3	1	4	2	0	3	0	2	1	1	2	0	0	0	3	1	5
ABAMECTINA	1	71751-41-2 (65195-55-3 B1a, 65195-56-4 B1b)	A,I,N	1	1	1	3	2	1	1	3	3	3	3	3	2	3	5	1	3	3	0	1	5
ACEFATE	5	30560-19-1	I	3	1	3	2	0	1	3	3	2	2	2	2	1	1	3	3	0	2	0	1	5
ACEQUINOCYL	1	57960-19-7	A	1	1	1	1	1	1	1	3	2	1	3	1	1	3	3	0	2	2	0	1	3
ACETAMIPRID	1	135410-20-7	I	3	1	2	3	0	1	3	3	3	1	2	2	3	1	4	0	0	2	1	1	3
ACETIC ACID	3	64-19-7	E,ME	3	1	2	0	0	0	5	1	0	2	1	2	0	1	2	0	2	0	1	1	3
ACETOCLOR	5	34256-82-1	E	2	1	2	3	1	1	2	3	2	2	2	2	2	3	3	2	3	3	2	5	
ACIBENZOLAR-S-METHYL	1	126448-41-7/135158-54-2	F,I	1	1	1	3	1	1	1	1	1	2	2	1	2	3	2	0	0	2	0	1	4
ACIDO GIBBERELLICO	1	77-06-5	R	3	1	3	1	0	1	2	1	1	1	1	2	0	1	1	0	0	0	2	1	4
ACIDO PELARGONICO	1	112-05-0	E,R	1	1	0	0	0	0	2	1	0	2	1	2	0	3	2	0	0	0	0	1	4
ACIFLUORFEN	5	50594-66-6	E,ME	3	2	2	3	0	3	5	2	1	2	2	0	0	1	3	0	2	2	1	1	2
ACLONIFEN	1	74070-46-5	E	1	3	1	3	1	1	2	3	1	3	2	1	2	3	4	0	2	2	0	2	4
ACRINATRINA	1	101007-06-1	I,A	1	2	1	3	1	1	1	3	1	3	3	3	2	3	5	1	2	3	0	1	5
ALACLOR	5	15972-60-8	E	2	1	2	1	1	1	1	3	2	2	2	2	2	3	3	2	2	3	1	2	5
ALDICARB	5	116-06-3	A,I,N	3	1	3	3	1	1	3	3	3	2	2	3	2	1	4	3	2	3	1	1	5
ALFAMETRINA	1	67375-30-8	I	1	2	1	3	1	1	1	3	1	3	3	3	2	3	5	2	0	2	0	2	4
ALLOSSIDIM-SODIO	5	55634-91-8	E	3	1	3	1	2	2	3	1	1	1	1	0	0	1	1	0	0	0	0	0	5
AMETOCTRADINA	1	865318-97-4	F	1	1	1	3	1	1	1	1	2	3	3	1	1	3	3	1	2	1	1	1	1
AMETRINA	5	834-12-8	E	2	2	2	3	0	1	3	2	1	2	2	1	2	1	1	0	0	2	1	0	4

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoil mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
AMIDOSULFURON	1	120923-37-7	E	3	1	3	3	2	3	5	2	1	2	2	2	1	1	1	0	1	1	0	1	2
AMINOPIRALID	1	150114-71-9	E	3	2	3	3	3	3	5	2	1	1	1	2	1	1	1	0	1	1	0	1	2
AMISULBROM	1	348635-87-0	F	1	3	2	2	3	1	3	0	0	2	2	2	0	1	3	0	0	0	1	1	3
AMITRAZ	5	33089-61-1	I,A	1	1	1	1	0	1	1	2	2	2	3	2	1	3	3	1	2	3	1	1	5
AMITROLE (O AMINOTRIAZOLE)	1	61-82-5	E	3	1	2	3	3	2	4	1	1	1	2	1	2	1	1	2	2	3	2	1	5
ANILAZINA	5	101-05-3	F,A	1	1	1	1	1	1	1	3	1	3	2	2	1	3	4	0	2	2	0	1	3
ANTRACHINONE	5	84-65-1	Re	1	1	1	3	0	1	2	1	1	2	2	0	1	3	2	1	1	0	0	2	3
ASULAME	5	3337-71-1	E	3	1	3	3	2	1	4	1	1	1	2	2	0	1	1	0	2	0	0	2	4
ATRAZINA	5	1912-24-9	E	1	2	2	2	2	3	3	2	1	2	2	2	2	1	3	2	2	2	1	1	2
AZADIRACTINA	1	11141-17-6	I	3	1	2	1	0	1	2	2	2	3	2	2	0	1	3	1	1	0	1	1	1
AZIMSULFURON	1	120162-55-2	E	3	2	3	3	3	3	5	1	1	2	2	2	2	1	1	0	2	2	0	1	3
AZINFOS-ETILE	5	2642-71-9	I,A	1	2	1	1	0	1	1	3	3	3	3	2	0	3	5	0	1	2	0	1	3
AZINFOS-METILE	5	86-50-0	I	1	1	1	2	0	1	1	3	3	3	3	3	2	2	5	1	0	2	1	1	2
AZOCICLOTIN	5	41083-11-8	A F	1	1	1	1	0	1	1	2	2	3	3	2	2	3	5	0	3	3	0	0	5
AZOSSISTROBINA	1	131860-33-8	F	1	2	2	3	3	2	3	3	1	2	2	2	2	1	3	0	2	2	0	1	3
BARBAN	5	101-27-9	E	1	1	1	1	0	1	1	2	0	2	2	0	0	3	5	0	0	0	0	0	5
BENALAXIL	1	71626-11-4	F	1	2	1	3	3	1	2	2	1	2	2	1	2	3	3	1	2	2	0	1	2
BENALAXIL-M	1	98243-83-5	F	1	2	1	3	3	1	2	3	1	2	2	1	2	3	3	1	2	2	0	1	2
BENDIOCARB	5	22781-23-3	I	2	1	2	1	1	1	1	3	3	2	3	3	0	1	5	0	2	3	1	1	5
BENFLURALIN	1	1861-40-1	E	1	2	1	3	1	1	1	3	1	3	2	1	2	3	4	0	1	3	0	2	5
BENFURACARB	5	82560-54-1	I	1	1	1	1	1	1	1	3	3	3	3	3	3	3	5	1	2	3	0	1	5
BENOMIL	5	17804-35-2	F,M	1	2	1	1	0	1	1	2	2	2	2	2	2	1	3	2	3	2	3	1	5
BENSULFURON-METILE	1	83055-99-6	E	2	1	2	3	2	2	3	3	1	2	1	2	1	1	1	1	2	1	0	1	2
BENSULTAP	5	17606-31-4	I	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	0	0	0	0	0	5
BENTAZONE	1	25057-89-0	E	3	1	3	3	3	3	5	3	2	1	2	1	2	1	2	1	1	2	0	1	2
BENTIAVALICARB	1	177406-68-7	F	0	0	0	0	0	0	5	1	1	2	2	1	1	1	1	1	2	2	0	1	2

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoil mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
BENTIAVALICARB ISOPROPIL	1	177406-68-7	F	1	1	2	0	1	2	2	3	1	2	2	1	1	1	1	1	2	2	1	2	2
BENZOIC ACID	3	65-85-0	I,F,B	3	1	2	0	0	0	5	1	0	1	1	0	0	1	2	1	0	1	1	1	1
BENZOILPROP-ETILE	5	22212-55-1	E	1	0	0	0	0	0	5	0	0	2	0	0	0	0	5	0	0	0	0	0	5
BENZOSSIMATO	4	29104-30-1	A	1	0	0	3	0	0	5	1	0	2	0	0	0	1	2	0	0	0	0	0	5
BENZOVINDIFLUPYR	3	1072957-71-1	F	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	0	0	0	0	0	5
BENZTIAZURON	5	1929-88-0	E	1	2	2	0	0	3	3	2	0	1	0	0	0	1	2	0	0	0	0	0	5
BETA-CIFLUTRIN	1	68359-37-5	I	1	1	1	3	1	1	1	3	1	3	3	3	2	3	5	2	2	3	0	1	5
BETA-CIPERMETRINA	5	65731-84-2	I	1	1	1	0	1	1	1	2	1	3	3	3	2	3	5	2	0	2	1	1	2
BETA-NOA (Acido 2-naftilossiacetico)	4	120-23-0	R,E	2	1	3	0	2	3	4	2	0	2	2	1	0	1	3	0	0	0	0	0	5
BIFENAZATE	1	149877-41-8	I,A	1	1	1	1	1	1	1	3	2	2	2	2	2	3	3	0	0	3	0	1	5
BIFENOX	1	42576-02-3	E	1	1	1	3	1	1	1	3	1	3	3	1	1	3	4	0	0	1	0	0	4
BIFENTRIN	2	82657-04-3	I,A	1	1	1	3	3	1	2	3	2	3	3	3	2	3	5	3	2	2	0	0	5
BINAPACRIL	5	485-31-4	F,I,M	1	3	1	0	0	1	2	3	2	3	0	2	0	3	5	0	3	3	0	0	5
BISPYRIBAC-SODIUM	1	125401-92-5	E	3	1	2	3	2	1	3	3	1	2	2	1	1	1	1	0	1	3	0	1	5
BITERTANOLO	5	55179-31-2/70585-36-3	F	1	1	1	3	2	1	1	3	2	3	2	1	2	3	4	0	3	3	0	1	5
BIXAFEN	1	581809-46-3	F	1	3	0	3	0	1	3	1	1	3	2	1	2	3	2	0	0	0	0	1	4
BOSCALID	1	188425-85-6	F	1	3	1	3	0	2	3	3	1	2	2	2	2	2	3	1	2	2	0	2	3
BRANDOL	5			0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	0	0	0	0	0	5
BRODIFACOU	4	56073-10-0	Ro	1	2	1	1	0	1	1	3	3	3	2	0	0	3	5	1	1	0	0	1	2
BROMACILE	5	314-40-9	E	3	2	3	3	0	3	5	2	1	2	1	1	0	1	1	0	1	1	1	1	1
BROMADIOLONE	1	28772-56-7	Ro	1	2	1	1	0	1	1	3	2	2	2	0	0	3	5	2	0	0	0	0	5
BROMOFENOSSIMA	5	13181-17-4	E	1	2	1	1	1	1	1	2	0	2	2	0	1	3	3	0	0	0	0	0	5
BROMOPROPILATO	5	18181-80-1	A	1	2	1	3	2	1	2	1	1	2	2	1	1	3	1	0	0	2	1	1	3
BROMOXINIL	1	1689-84-5	E,Me	3	1	2	3	1	1	2	3	2	2	2	2	2	1	3	3	2	3	0	2	5
BROMOXINIL OTTANOATO	1	1689-99-2	E	1	1	1	1	1	1	1	2	2	3	3	1	0	3	5	3	2	3	0	2	5
BROMUCONAZOLO	1	116255-48-2	F	1	3	1	3	3	3	4	3	1	2	2	1	2	3	3	0	2	3	0	1	5

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoll mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
BROMURO DI METILE	5	74-83-9	I,Fm	3	2	3	1	0	3	5	2	3	2	2	2	0	1	3	2	3	1	3	1	5
BUPIRIMATE	1	41483-43-6	F	1	2	1	1	2	1	1	2	1	2	2	2	1	3	3	1	2	2	0	1	2
BUPROFEZIN	1	69327-76-0	I,A	1	2	1	3	2	1	2	3	1	2	2	1	1	3	2	1	2	3	0	1	5
BUTILATE	5	2008-41-5	E	1	2	2	3	0	2	3	1	1	2	1	2	0	3	2	0	1	0	1	1	2
CADUSAFOS	5	95465-99-9	I,N	2	2	2	3	3	2	3	3	3	3	3	2	3	3	5	1	1	3	0	1	5
CAPTAFOL	5	2425-06-1	F	1	1	1	0	0	1	2	1	1	2	2	2	0	3	3	0	1	0	1	3	5
CAPTANO	1	133-06-2	F,B	1	1	2	1	1	1	1	3	1	2	2	1	2	1	2	1	0	2	1	0	3
CARBARIL	5	63-25-2	I,R	1	1	2	1	1	2	1	3	1	2	3	3	3	1	4	3	0	3	1	1	5
CARBENDAZIM	5	10605-21-7	F,Me	1	1	2	3	2	2	3	3	1	3	3	2	3	1	4	2	3	2	3	0	5
CARBETAMIDE	2	16118-49-3	E	3	1	2	1	2	2	3	2	1	1	2	2	2	1	1	0	2	2	0	2	4
CARBOFENOTION	5	786-19-6	I,A	1	2	1	0	0	1	2	3	2	3	0	2	0	3	5	0	2	3	1	1	5
CARBOFURAN	5	1563-66-2	I,A,N,Me	2	1	2	2	1	2	3	3	3	3	3	3	2	1	5	3	3	3	1	1	5
CARBONIO TETRACLORURO	4	56-23-5	I,Fm	3	1	2	3	0	1	3	1	0	2	2	0	2	1	3	0	2	0	0	2	4
CARBOSSINA	1	5234-68-4	F	2	1	2	3	1	1	2	3	1	2	2	1	2	1	2	0	1	3	1	1	5
CARBOSULFAN	5	55285-14-8	I,N	1	1	1	1	1	1	1	3	3	3	3	3	3	3	5	1	2	3	0	1	5
CARFENTRAZONE-ETILE	1	128639-02-1	E	1	1	1	1	1	1	1	1	1	2	2	1	2	3	2	0	1	2	1	1	2
CARTAP	5	15263-53-3	I	3	1	0	0	0	0	5	3	0	2	3	2	0	1	5	0	0	0	0	1	4
CHINOMETIONATO	5	2439-01-2	F,A,M	1	1	3	1	1	1	1	1	2	3	2	2	1	3	3	0	2	3	0	1	5
CIALOFOP BUTILE	1	122008-85-9	E	1	1	1	2	1	1	1	3	1	2	2	1	1	3	2	0	1	3	1	1	5
CIANAMIDE	5	420-04-2	E,R	3	1	3	3	1	1	3	3	2	2	2	2	1	1	3	1	2	3	0	2	5
CIANAZINA	5	21725-46-2	E	2	1	2	3	2	2	3	2	2	2	2	2	2	1	3	3	3	0	1	2	5
CIANTRANILPROLE	3	736994-63-1	I	1	2	2	2	1	2	3	1	1	2	3	3	2	1	2	0	1	3	1	1	5
CIAZOFAMID	1	120116-88-3	F	1	1	1	1	1	1	1	3	1	2	2	1	2	3	3	0	2	1	1	1	2
CICLOATO	5	1134-23-2	E	2	2	2	1	0	2	3	1	1	2	2	2	2	3	3	0	2	0	0	1	4
CICLOSSIDIM	1	101205-02-1	E	2	1	3	3	1	1	2	3	1	1	2	1	1	1	1	0	2	2	0	1	3
CICLURON	5	2163-69-1	E	3	0	1	0	0	0	5	2	0	0	0	0	0	2	5	0	0	0	0	1	4

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoil mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
CIEXATIN	5	13121-70-5	I,A,Me	1	2	1	3	0	1	2	3	2	3	3	2	0	3	5	0	2	3	0	0	5
CIFLUFENAMIDE	1	180409-60-3	F	1	2	1	3	2	2	3	3	1	2	2	1	2	3	3	0	1	2	0	2	3
CIFLUMETOFEN	3	400882-07-7	A	1	1	1	1	1	1	1	1	1	2	3	1	1	0	2	0	0	0	1	2	4
CIFLUTRIN	1	68359-37-5	I	1	2	1	3	1	1	1	3	1	3	3	3	1	3	5	0	2	3	1	1	5
CIMOXANIL	1	57966-95-7	F	3	1	3	1	1	1	2	3	1	2	2	2	2	1	3	0	3	2	0	1	5
CINOSULFURON	5	94593-91-6	E	3	1	3	3	0	3	5	1	1	1	1	2	1	1	1	0	0	0	0	0	5
CIPERMETRINA	1	52315-07-8	I	1	2	1	3	1	1	1	3	1	3	3	3	2	3	5	2	2	2	1	2	2
CIPROCONAZOLO	1	94361-06-5	F	2	3	2	3	3	3	5	3	2	2	2	1	2	3	3	0	2	2	0	2	4
CIPRODINIL	1	121552-61-2	F	1	2	1	3	3	1	2	3	2	2	3	1	2	3	4	0	2	2	1	1	2
CIPROSULFAMIDE	1	221667-31-8	E, re	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	0	0	0	1	1	3
CIROMAZINA	1	66215-27-8	I	3	2	2	3	3	2	5	3	2	2	2	1	1	1	2	0	3	2	0	1	5
CLETODIM	1	99129-21-2	E	3	1	3	3	1	1	3	3	2	2	1	2	2	3	3	1	2	3	1	1	5
CLODINAFOP	1	114420-56-3	E,Me,R	0	1	3	3	0	2	5	0	0	2	2	2	0	1	3	0	0	3	0	0	5
CLODINAFOP-PROPARGYL	1	105512-06-9	E	1	1	1	1	1	1	1	3	2	2	2	2	2	3	3	1	2	3	0	1	5
CLOFENTEZINE	1	74115-24-5	A	1	3	1	1	1	2	1	1	1	3	3	2	2	3	4	1	2	2	0	2	3
CLOMAZONE	1	81777-89-1	E	3	2	2	3	2	3	5	3	1	2	2	2	2	1	3	0	2	1	0	1	3
CLOPIRALID (Acido 3,6-dicloro-picolinico)	1	1702-17-6	E	3	2	3	3	0	3	5	3	2	2	2	2	2	1	3	0	2	1	0	1	3
CLOQUINTOCET-MEXYL	1	99607-70-2	E	1	1	1	3	0	1	2	3	1	2	1	1	1	3	2	0	0	2	0	1	4
CLORANTRANILIPROLE (RYNAXYPYR)	1	500008-45-7	I	1	3	2	3	3	3	5	1	1	2	3	2	1	2	2	1	1	0	1	1	1
CLORBENSIDE	5	103-17-3	A,M,I	1	0	1	0	0	0	2	1	0	0	0	1	0	3	5	0	0	3	0	1	5
CLORBUFAM	4	1967-16-4	E	3	2	2	0	0	3	5	1	0	0	0	1	0	3	5	0	0	0	0	1	4
CLORFENPROP-METILE	5	14437-17-3	E	1	0	0	0	0	0	5	2	0	0	0	0	0	3	5	0	0	0	0	0	5
CLORFENSON	5	80-33-1	A	1	0	1	0	0	0	2	1	1	2	0	0	0	3	2	0	0	3	0	0	5
CLORFENVINFOS	5	470-90-6	I,A	2	2	1	3	0	2	3	3	3	2	3	3	2	3	5	3	0	3	0	0	5
CLORIDAZON	1	1698-60-8	E	2	2	2	3	3	2	3	3	1	2	2	1	1	1	1	0	2	2	0	1	3
CLORMEFOS	5	24934-91-6	I	2	1	1	0	0	1	2	3	2	2	0	3	2	3	5	0	0	0	0	0	5

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoil mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
CLORMEQUAT	1	999-81-5	R	3	1	2	3	1	2	3	3	2	1	2	2	2	1	3	0	3	2	0	1	5
CLOROBENZILATO	5	510-15-6	I,A	1	1	1	0	0	1	2	1	1	2	3	2	0	3	3	0	0	2	0	1	4
CLOROFACINONE	5	3691-35-8	Ro	1	2	1	2	0	1	2	3	3	2	2	2	0	1	3	0	0	0	0	1	4
CLOROPICRINA	5	76-06-2	I,N	3	1	3	3	0	2	5	3	0	2	3	2	2	1	3	0	1	3	2	1	5
CLOROTALONIL	1	1897-45-6	F	1	1	1	3	1	1	1	3	1	3	3	2	2	2	4	1	0	2	1	2	2
CLOROXURON	5	1982-47-4	E	1	2	1	3	0	1	2	1	1	1	2	2	0	3	2	1	0	0	0	1	3
CLORPIRIFOS	1	2921-88-2	I	1	2	1	1	2	1	1	3	3	3	3	3	2	3	5	2	3	3	1	1	5
CLORPIRIFOS-METILE	1	5598-13-0	I,A	1	1	1	1	1	1	1	3	2	3	3	3	2	3	5	1	0	3	0	1	5
CLORPROFAM	1	101-21-3	E,R	2	1	2	3	2	1	3	1	1	2	2	2	2	3	3	0	2	2	1	1	2
CLORSULFURON	1	64902-72-3	E	3	3	3	3	1	3	5	1	1	1	1	1	2	1	1	2	2	1	0	1	2
CLORTAL-DIMETILE	5	1861-32-1	E	1	2	1	3	2	1	2	3	1	2	2	1	0	3	3	0	1	3	1	2	5
CLORTIAMID	5	1918-13-4	E	3	1	2	3	0	2	4	2	2	2	0	2	0	2	3	0	0	0	0	0	5
CLORTOLURON	1	15545-48-9	E	2	2	2	3	3	3	5	3	2	2	2	1	1	1	2	1	0	2	0	2	3
CLOTIANIDIN	1	210880-92-5	I,Me	2	3	2	3	2	3	5	3	2	1	2	3	3	1	4	2	2	2	1	1	2
CLOZOLINATE	5	84332-86-5	F	1	1	1	0	0	1	2	1	1	2	2	2	0	3	3	0	0	0	1	2	4
CUMACLORO	5	81-82-3	Ro	1	0	1	0	0	0	2	3	3	1	3	0	0	3	5	0	0	0	0	0	5
CUMATETRALIL	5	5836-29-3	Ro	1	2	2	3	0	2	3	3	1	2	2	0	0	3	5	0	0	0	0	1	4
DALAPON	5	75-99-0	E,R	3	2	0	0	0	0	5	0	1	1	0	0	0	1	2	0	1	0	1	1	2
DAMINOZIDE	1	1596-84-5	R	3	1	3	3	1	1	3	3	1	1	2	1	1	1	1	0	1	1	1	2	2
DAZOMET	1	533-74-4	I,F,E,Fm	3	1	3	1	1	1	2	2	2	2	2	2	3	1	3	0	2	3	0	1	5
DDT	5	50-29-3	I	1	3	1	0	0	1	2	2	1	2	3	2	0	3	3	3	3	3	0	3	5
DELTAMETRINA	1	52918-63-5	I,Me	1	1	1	3	2	1	1	3	1	3	3	3	1	3	5	3	2	3	1	1	5
DEMETON-S-METILE	5	919-86-8	I,A	3	1	2	2	0	1	2	3	3	2	3	3	2	1	5	1	2	3	3	1	5
DEMETON-S-METISOLFONE	5	17040-19-6	I,A,Me	0	0	0	0	0	0	5	3	0	0	0	0	0	1	5	0	0	0	0	0	5
DENATONIUM BENZOATO	1	3734-33-6	Re	3	2	3	3	0	3	5	2	2	1	1	0	0	1	2	0	0	0	0	0	5
DESMEDIFAM	1	13684-56-5	E	1	1	1	1	1	1	1	3	1	2	2	2	2	3	3	0	1	2	0	1	3

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoil mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
DIAZINONE	5	333-41-5	I,A	2	1	1	3	1	1	1	3	3	2	3	3	2	3	5	2	2	3	2	3	5
DICAMBA	1	1918-00-9	E	3	1	3	3	2	1	4	2	2	1	1	1	1	1	1	0	2	1	1	1	2
DICHLORMID	4	37764-25-3	E	3	1	3	0	0	2	5	3	0	1	1	0	0	1	2	0	1	0	0	1	3
DICLOBENIL	5	1194-65-6	E,Me	1	2	2	3	3	2	3	1	2	2	2	2	1	1	1	0	0	2	0	2	4
DICLOBUTRAZOLO	5	75736-33-3	F,B,T	1	1	0	0	0	0	2	1	1	2	0	3	0	3	3	0	0	0	0	1	4
DICLOFLUANIDE	5	1085-98-9	F	1	1	1	1	1	1	1	1	1	3	2	2	2	3	3	0	0	1	0	0	4
DICLOFOP-METILE	1	51338-27-3	E	1	1	1	2	1	1	1	3	1	2	2	1	2	3	3	0	2	3	1	2	5
DICLORAN	5	99-30-9	F	1	3	1	3	1	2	2	3	2	2	2	1	2	2	3	0	2	2	0	2	4
DICLORPROP (o 2,4 DP)	5	120-36-5/7547-66-2	E	2	1	3	3	1	2	3	2	2	2	1	2	1	1	1	0	2	0	0	0	5
DICLORPROP-P	1	15165-67-0	E	3	1	3	3	1	2	4	2	2	1	1	1	1	1	1	0	2	2	0	1	3
DICLORVOS	5	62-73-7	I,A,Me	3	1	3	1	1	1	2	3	3	2	3	3	0	1	5	2	0	3	3	2	5
DICOFOL	5	115-32-2	A	1	2	1	1	1	1	1	3	2	3	2	2	2	3	5	2	0	3	1	1	5
DIETOFENCARB	2	87130-20-9	F	1	1	2	3	1	1	1	1	1	2	2	1	2	2	1	0	3	1	0	1	5
DIFENACOUUM	1	56073-07-5	Ro	1	3	1	3	0	1	2	3	3	3	2	0	0	3	5	0	3	0	0	0	5
DIFENAMIDE	4	957-51-7	E	2	1	2	0	0	2	3	2	1	2	3	1	0	1	2	0	0	0	0	1	4
DIFENILAMMINA	4	122-39-4	F,I,R	1	0	1	3	0	0	2	1	1	2	2	0	0	3	2	0	3	2	1	1	5
DIFENOCONAZOLO	1	119446-68-3	F	1	3	1	3	3	1	3	3	1	2	3	1	2	3	4	0	1	3	0	2	5
DIFLUBENZURON	1	35367-38-5	I	1	1	1	2	1	1	1	1	1	2	3	2	2	3	3	1	1	3	1	1	5
DIFLUFENICAN	1	83164-33-4	E	1	3	1	3	3	1	3	1	1	3	2	1	2	3	2	0	2	1	0	1	3
DIMEPIPERATE	5	61432-55-1	E	1	1	1	0	0	1	2	3	1	2	2	0	0	3	5	0	0	3	0	0	5
DIMETAOLR	2	50563-36-5	E	3	1	3	3	1	1	3	3	2	2	2	1	2	1	3	0	3	2	0	1	5
DIMETENAMID	5	87674-68-8	E	3	1	3	3	0	2	5	3	2	2	2	2	2	1	3	0	0	2	0	2	4
DIMETENAMID-P	1	163515-14-8	E	3	1	2	3	1	2	3	2	2	2	2	1	2	1	3	0	2	2	1	1	2
DIMETOATO	1	60-51-5	I,A,Me	3	1	3	2	1	1	2	3	3	2	2	3	2	1	4	2	3	3	1	2	5
DIMETOMORF	1	110488-70-5	F	1	2	2	2	2	2	3	3	1	2	3	2	2	1	3	0	2	2	1	1	2
DIMOXISTROBINA	2	149961-52-4	F	1	3	2	3	0	3	5	3	1	3	3	2	2	3	5	0	2	3	0	2	5

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoll mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
DINITRAMINA	5	29091-05-2	E	1	2	1	0	0	1	2	1	2	2	0	0	0	3	5	0	0	0	0	0	5
DINOCAP	5	131-72-6/39300-45-3	F,A	1	1	1	1	1	1	1	3	1	3	3	2	2	3	5	0	3	3	0	1	5
DINOSEB	5	88-85-7	E	2	1	3	3	0	3	5	3	3	3	2	3	0	1	5	0	3	3	1	2	5
DINOTERB	5	1420-07-1	E	1	1	3	3	2	2	3	3	0	3	2	0	0	1	5	0	3	0	0	0	5
DIOXACARB	5	6988-21-2	I	3	1	3	0	0	1	3	3	3	2	0	3	0	1	5	0	0	0	0	1	4
DIQUAT	1	2764-72-9	E	3	3	1	3	3	1	4	3	2	2	2	2	0	1	3	0	1	0	0	1	3
DISULFOTON	5	298-04-4	I,A	1	1	1	3	1	1	1	3	3	3	3	2	2	3	5	0	2	3	2	1	5
DITALIMFOS	5	5131-24-8	F	2	0	1	0	0	0	5	1	2	0	0	0	0	3	5	0	0	0	0	0	5
DITIANON	1	3347-22-6	F	1	1	1	1	1	1	1	2	2	3	2	2	2	3	3	0	0	3	0	2	5
DIURON	2	330-54-1	E	1	2	1	3	2	2	3	2	2	2	2	1	2	2	3	2	2	3	1	2	5
DNOC	5	534-52-1	E,I,A	3	1	2	0	2	2	3	3	3	3	2	1	2	1	4	0	1	0	3	1	5
DODEMORF	1	1593-77-7	F	2	2	1	0	2	1	3	1	0	2	2	2	0	3	3	0	3	2	0	1	5
DODINA	1	2439-10-3	F	3	1	1	3	1	1	2	2	2	2	3	1	2	1	3	0	2	3	1	1	5
EMAMECTINA BENZOATO	1	155569-91-8 / 137512-74-4	I,A	1	0	3	0	0	0	5	3	3	2	3	0	1	3	5	0	2	0	0	1	4
ENDOSULFAN	5	115-29-7	I,A	1	2	1	1	0	1	1	3	2	3	2	2	2	3	5	2	0	3	3	1	5
ENDOTAL	5	145-73-3	E,AI,R	3	1	2	0	0	1	2	3	1	2	2	0	0	1	2	0	1	0	1	1	2
EPOSSICONAZOLO	1	133855-98-8/106325-08-0	F	1	3	1	3	3	2	4	3	1	2	2	2	3	3	4	0	2	3	0	2	5
EPTC (Etil-dipropiltiocarbammato)	5	759-94-4	E	2	1	2	3	0	1	2	2	2	2	2	2	2	3	3	0	2	0	1	1	3
EPTENOFOS	5	23560-59-0	I	3	1	2	1	1	1	1	3	3	3	3	3	2	1	5	0	0	3	0	1	5
ESACLOROBENZENE (o HCB)	5	118-74-1	F,Me	1	3	1	0	0	1	2	1	2	3	2	0	1	3	3	2	2	0	1	2	3
ESACONAZOLO	5	79983-71-4	F,T	1	3	1	3	3	2	4	3	1	2	2	1	2	3	3	0	0	3	0	2	5
ESAFLUMURON	5	86479-06-3	I	1	2	1	0	0	1	2	3	1	1	3	3	2	3	4	0	0	2	0	0	5
ESAZINONE	5	51235-04-2	E	3	3	3	2	0	3	5	2	1	1	2	2	0	1	2	0	2	2	1	1	2
ESFENVALERATE	1	66230-04-4	I	1	2	1	3	2	1	2	3	2	3	3	3	2	3	5	2	2	2	1	1	2
ETACELASIL	5	37894-46-5	E,R	3	0	0	0	0	0	5	0	0	0	0	0	0	0	5	0	0	0	0	0	5
ETALFLURALIN	5	55283-68-6	E	1	2	1	3	1	1	1	1	1	3	2	1	2	3	2	0	0	2	0	2	4

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoil mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
ETEFON	1	16672-87-0	R	3	1	1	1	1	1	1	3	2	1	2	1	2	1	2	0	0	2	1	0	4
ETIOFENCARB	5	29973-13-5	I	3	2	3	1	2	3	4	2	2	2	2	0	2	1	3	0	0	2	0	0	5
ETION	5	563-12-2	I,A,Me	1	2	1	3	0	1	2	3	2	2	3	2	0	3	5	0	2	3	1	1	5
ETIRIMOL	5	23947-60-6	F,Me	2	2	2	1	0	2	3	1	1	2	2	2	0	1	2	0	0	2	0	1	4
ETOFENPROX	1	80844-07-1	I	1	1	1	3	1	1	1	1	1	3	3	3	2	3	4	0	3	2	0	1	5
ETOFUMESATE	1	26225-79-6	E	1	1	2	3	3	2	3	1	1	2	2	2	2	1	1	0	2	2	1	1	2
ETOPROFOS	1	13194-48-4	I,N	3	1	3	3	2	2	4	3	3	2	2	2	2	2	3	0	0	3	0	2	5
ETOSSICHINA	5	91-53-2	F	1	0	1	0	0	0	2	2	1	2	2	0	0	3	3	0	0	3	0	0	5
ETOXAZOLO	1	153233-91-1	A	1	1	1	3	2	1	1	1	1	2	3	1	1	3	2	0	2	2	0	1	3
ETOXISULFURON	4	126801-58-9	E	3	1	2	3	1	2	3	3	1	2	2	1	1	1	1	0	2	2	0	1	3
ETRIDIAZOLO	1	2593-15-9	F	2	1	2	2	1	2	3	3	2	2	2	0	0	3	5	3	3	3	0	2	5
EXITIAZOX	1	78587-05-0	A	1	1	1	3	2	1	1	1	1	3	3	1	2	1	2	0	0	2	0	2	4
FAMOXADONE	1	131807-57-3	F	1	2	1	1	1	1	1	3	1	3	3	2	2	3	5	0	2	2	0	1	3
FENAMIDONE	1	161326-34-7	F	1	1	2	3	2	1	2	3	1	2	2	2	2	2	3	0	1	2	0	1	3
FENAMIFOS	1	22224-92-6	N	2	1	2	3	2	1	3	3	3	3	3	3	2	3	5	0	0	3	1	1	5
FENARIMOL	5	60168-88-9	F	1	3	1	3	3	3	4	3	1	2	2	2	2	3	3	3	2	3	0	1	5
FENAZAFLOR	5	14255-88-0	I,A	0	0	0	0	0	0	5	2	0	2	0	0	0	0	5	0	0	0	0	1	4
FENAZAQUIN	1	120928-09-8	A	1	2	1	3	0	1	2	3	2	3	3	2	2	3	5	0	1	3	0	1	5
FENBUCONAZOLO	1	114369-43-6	F	1	2	1	3	1	1	1	3	1	2	2	2	2	3	3	0	1	3	0	2	5
FENBUTATIN OSSIDO	5	13356-08-6	A	1	3	1	2	3	1	2	1	2	3	3	1	2	3	4	0	3	2	0	1	5
FENCLORAZOL-ETILE	5	103112-35-2	E	1	1	0	1	0	0	2	1	1	3	2	1	0	3	2	0	0	0	0	3	5
FENCLORIM	5	3740-92-9	E	1	1	1	3	0	1	2	3	2	2	2	2	2	3	3	0	0	0	0	0	5
FENEXAMIDE	1	126833-17-8	F	1	1	2	3	1	1	1	1	1	2	2	1	2	3	2	0	1	1	0	1	2
FENITROTION	5	122-14-5	I	1	1	1	3	1	1	1	2	3	2	3	3	2	3	5	3	0	3	1	1	5
FENMEDIFAM	1	13684-63-4	E	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	0	2	2	0	1	3
FENOTIOCARB	5	62850-32-2	A	1	1	1	3	0	1	2	3	1	2	2	1	0	3	3	0	0	3	0	0	5

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoil mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
FENOXAPROP-ETILE	5	66441-23-4	E	1	1	1	2	1	1	1	3	1	2	2	1	2	3	3	0	0	0	0	2	5
FENOXAPROP-P-ETILE	1	71283-80-2	E	1	1	1	1	1	1	1	3	1	2	2	2	2	3	3	0	2	3	0	0	5
FENOXICARB	2	79127-80-3	I	1	1	1	3	1	1	1	3	1	2	3	1	2	3	4	3	0	2	1	2	5
FENPIRAZAMINA	1	473798-59-3	F	1	2	0	2	2	3	3	1	1	2	2	1	2	3	2	1	2	1	1	1	1
FENPIROXIMATE	1	134098-61-6	A	1	2	1	3	1	1	1	3	1	3	3	2	2	3	5	0	3	3	0	1	5
FENPROPATRIN	5	39515-41-8/64257-84-7	I,A	1	2	1	3	1	1	1	3	2	3	3	3	2	3	5	0	0	2	0	1	4
FENPROPIDIN	1	67306-00-7	F	3	2	1	3	2	1	3	3	2	2	2	2	2	1	3	0	1	2	0	2	3
FENPROPIMORF	1	67564-91-4	F	1	2	1	3	2	1	2	3	1	2	2	2	2	3	3	1	2	3	0	1	5
FENSON	5	80-38-6	A,I	1	0	0	0	0	0	5	2	0	2	0	0	0	3	5	0	0	0	0	1	4
FENTIN ACETATO	5	900-95-8	F	1	3	1	1	1	1	1	2	3	2	3	2	2	3	5	2	2	3	0	2	5
FENTIN IDROSSIDO	5	76-87-9	F	1	1	1	1	1	1	1	2	2	3	3	1	2	3	4	0	2	3	0	2	5
FENTION	5	55-38-9	I	1	1	1	3	2	1	1	2	3	2	3	3	2	3	5	0	1	3	2	1	5
FENTOATO	5	2597-03-7	I,A	1	2	1	0	0	1	2	2	2	2	3	3	0	3	5	0	0	3	0	1	5
FENVALERATE	5	51630-58-1	I,A	1	2	1	3	0	1	2	2	1	3	3	3	2	3	5	3	0	2	0	1	5
FERBAM	5	14484-64-1	F	2	1	2	1	1	2	1	1	1	3	3	2	2	1	2	0	0	3	0	1	5
FIPRONIL	2	120068-37-3	I	1	3	1	3	2	2	3	3	3	2	2	3	1	3	5	2	0	3	0	2	5
FLAMPROP-ISOPROPILE R-(-)-ISOMERO	5	63782-90-1	E	1	2	1	0	0	2	2	1	1	2	2	2	1	3	2	0	0	0	0	0	5
FLAZASULFURON	1	104040-78-0	E	3	2	3	1	1	2	3	3	1	2	2	1	2	1	2	0	3	2	1	1	5
FLONICAMID	1	158062-67-0	I,Af	3	1	3	3	2	1	4	3	1	2	2	1	1	1	1	0	2	2	0	2	4
FLORASULAM	1	145701-23-1	E	3	1	3	3	1	1	3	2	2	1	1	1	1	1	1	0	0	2	1	1	3
FLUAZIFOP-P-BUTILE	1	79241-46-6	E	1	1	1	2	1	1	1	1	1	2	2	1	1	3	1	0	2	3	1	1	5
FLUAZINAM	1	79622-59-6	F	1	1	1	1	1	1	1	3	2	3	2	1	2	3	4	2	2	3	1	2	5
FLUBENDIAMIDE	2	272451-65-7	I	1	1	1	3	3	3	3	3	1	3	3	1	1	3	4	3	3	0	1	1	5
FLUBENZIMIN	5	37893-02-0	A,F	1	0	0	0	0	0	5	1	1	0	0	0	0	3	5	0	0	0	1	0	4
FLUCICLOXURON	5	113036-88-7	I,A	1	3	1	1	3	1	2	1	1	1	3	1	1	3	1	0	0	0	1	1	3
FLUCITRINATE	5	70124-77-5	I,A	1	2	1	0	0	1	2	3	1	2	3	3	0	3	5	0	2	2	1	1	2

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FLUDIOXONIL	1	131341-86-1	F	1	3	1	3	3	1	3	3	1	2	3	1	2	3	4	0	2	1	0	1	3
FLUFENACET	1	142459-58-3	E	2	2	2	3	2	2	3	3	2	2	2	1	2	3	3	0	0	3	0	1	5
FLUFENOXURON	5	101463-69-8	I,A	1	2	1	3	2	1	2	3	1	3	3	1	2	3	4	3	2	3	1	1	5
FLUMETRALIN	2	62924-70-3	R	1	1	1	3	1	1	1	1	1	3	3	0	2	3	4	0	1	0	0	1	3
FLUMIOXAZINA	2	103361-09-7	E	1	1	1	1	1	1	1	1	1	2	2	1	2	1	1	0	3	3	1	1	5
FLUOMETURON	2	2164-17-2	E	2	2	3	3	3	3	5	3	1	2	2	2	2	1	3	0	2	3	1	2	5
FLUOPICOLIDE	1	239110-15-7	F	1	3	2	3	3	3	5	3	1	2	2	1	2	2	3	0	1	2	0	1	3
FLUOPIRAM	1	658066-35-4	F	1	3	0	3	3	3	5	0	0	2	0	1	0	0	5	0	0	0	0	1	4
FLUORODIFEN	5	15457-05-3	E	1	0	1	0	0	0	2	0	0	2	0	0	0	3	5	0	0	0	0	1	4
FLUOXASTROBIN	1	361377-29-9	F	1	3	1	3	3	2	4	3	1	2	2	1	2	2	3	1	1	2	0	1	2
FLUPIRADIFURONE	3	951659-40-8	I	3	2	2	0	3	3	5	2	2	2	2	2	2	1	3	1	2	2	1	1	1
FLUPIRISULFURON-METILE	2	144740-54-5	E	3	1	3	1	1	3	3	1	1	1	1	2	1	1	1	0	0	2	0	3	5
FLUQUINCONAZOLO	1	136426-54-5	F	1	3	1	1	1	2	1	3	1	2	2	1	1	3	2	0	0	3	0	1	5
FLURENOL	5	467-69-6	R	1	1	0	3	0	1	2	1	0	1	2	0	1	3	2	0	0	0	0	0	5
FLUROCLORIDONE	2	61213-25-0	E	1	2	1	3	3	2	3	1	1	2	2	2	2	3	3	0	2	2	1	0	3
FLUROXIPIR	1	69377-81-7	E	3	1	3	3	2	2	4	3	1	2	1	2	1	1	1	0	2	1	1	1	2
FLURPRIMIDOL	5	56425-91-3	R	2	1	2	3	0	3	4	2	1	2	2	1	2	3	3	0	3	3	0	1	5
FLURTAMONE	2	96525-23-4	E	1	2	2	3	2	3	3	3	1	2	2	1	1	3	2	0	0	2	1	0	4
FLUSILAZOL	5	85509-19-9	F	1	3	1	3	3	2	4	3	2	2	2	2	2	3	3	0	3	3	0	2	5
FLUTOLANIL	2	66332-96-5	F	1	3	1	3	3	2	4	1	1	2	2	1	2	3	2	0	1	2	0	1	3
FLUTRIAFOL	1	76674-21-0	F	2	3	2	3	3	3	5	2	1	2	2	2	1	1	1	0	0	3	0	1	5
FLUVALINATE	1	102851-06-9	I,A	1	1	1	1	2	1	1	2	1	3	3	0	2	1	3	3	2	3	1	1	5
FLUXAPIROXAD	1	907204-31-3	F	1	3	0	0	3	2	5	1	1	2	2	1	2	3	2	0	2	2	0	1	3
FOLPET	1	133-07-3	F	1	1	2	1	1	1	1	3	1	2	3	1	2	3	4	0	0	2	2	2	4
FOMESAFEN	5	72178-02-0	E	1	2	3	0	1	3	3	3	1	1	1	2	1	1	1	0	2	3	0	1	5
FONOFOS	5	944-22-9	I	1	2	1	2	0	2	3	3	2	3	3	3	2	3	5	0	2	0	1	1	3

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoll mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
FORAMSULFURON	1	173159-57-4	E	3	1	2	3	2	3	4	1	1	1	1	1	2	1	1	0	1	1	1	1	1
FORATE	5	298-02-2	A,I,N	1	2	1	1	0	1	1	3	3	3	3	3	2	3	5	0	1	3	1	1	5
FORCLORFENURON	1	68157-60-8	R	1	3	1	3	3	2	4	3	1	2	2	2	2	3	3	1	2	0	0	1	3
FORMETANATO	1	22259-30-9	I,A	3	1	2	1	1	1	1	3	3	2	3	3	2	1	5	0	1	3	0	1	5
FORMOTION	5	2540-82-1	I,A	3	1	3	1	0	3	4	2	2	2	2	3	0	1	3	0	0	0	1	1	3
FOSALONE	5	2310-17-0	I,A	1	1	1	3	1	1	1	3	2	2	3	2	2	3	5	0	0	3	0	1	5
FOSAMINA D'AMMONIO	5	59682-52-9	E,R	3	1	3	3	0	2	5	1	1	1	1	0	0	1	1	1	0	0	0	1	3
FOSETIL ALLUMINIO	1	39148-24-8	F	3	1	1	3	1	1	2	2	1	1	1	1	1	1	1	0	1	1	0	1	2
FOSFAMIDONE	5	13171-21-6	I,A	3	1	3	2	1	2	3	3	3	2	3	2	0	1	5	3	0	3	3	2	5
FOSFINA	2	7803-51-2	I,Me,Fm	2	1	0	1	0	0	2	0	0	3	2	0	0	0	5	0	0	3	1	1	5
FOSMET	1	732-11-6	I,A	1	1	1	1	1	1	1	3	3	2	3	3	2	2	5	0	0	3	1	2	5
FOSTIAZATE	1	98886-44-3	I,N	3	1	3	3	2	3	5	3	3	2	2	3	2	1	4	0	2	3	0	1	5
FOXIM	5	14816-18-3	I	1	1	1	1	0	1	1	1	0	2	3	0	0	3	5	0	0	3	0	0	5
FUBERIDAZOLE	2	3878-19-1	F	2	1	1	3	1	1	1	3	2	2	2	1	1	2	3	0	3	3	0	2	5
FURALAXIL	5	57646-30-7	F	2	2	1	3	0	1	2	2	1	2	2	2	2	1	3	1	1	0	1	1	1
FURATIOCARB	5	65907-30-4	I	1	1	1	3	0	1	2	3	3	3	3	0	2	3	5	0	0	0	0	0	5
FURILAZOLE	5	121776-33-8	E	2	1	2	0	0	3	3	2	1	2	2	1	0	1	2	0	1	0	1	2	3
GAMMA-CIALOTRINA	2	76703-62-3	I	1	1	1	3	2	1	1	3	1	3	3	3	2	1	4	2	2	3	0	1	5
GLIFOSATE	1	1071-83-6	E	3	1	1	3	2	1	2	2	1	2	2	2	2	1	3	0	1	1	1	3	5
GLIFOSATE TRIMESIO	1	81591-81-3	E	3	1	1	3	3	1	3	2	2	2	2	1	2	1	3	0	1	0	1	3	5
GLUFOSINATE DI AMMONIO	1	77182-82-2	E	3	1	1	3	1	1	2	3	1	1	1	1	1	1	1	1	3	2	0	1	5
GUAZATINA	5	108173-90-6	F	3	1	1	3	2	1	2	3	2	2	2	2	2	1	3	0	1	2	0	1	3
HALAUXIFEN	2	943831-98-9	E	3	1	1	3	1	1	2	1	1	2	2	2	2	3	3	0	3	2	0	0	5
HALOSULFURON METHYL	1	100784-20-1	E	1	1	2	1	1	3	1	2	1	1	2	1	1	1	1	0	1	2	1	1	2
HALOXIFOP-R-METILESTERE (HALOXIFOP-P-METIL)	2	72619-32-0	E	1	1	3	2	1	1	1	2	2	3	2	1	0	3	3	0	1	3	0	1	5
HALOXYFOP-ETOSSIETILE	5	87237-48-7	E	1	1	2	1	0	1	1	2	1	2	2	1	2	3	3	0	0	3	0	0	5

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HEPTAMALOXYGLUCANO	2	870721-81-6	Re, Au	3	0	0	3	0	0	5	1	0	1	1	1	0	1	1	1	1	0	0	1	2
HIMEXAZOLE	1	10004-44-1	F	3	1	3	3	1	2	4	3	2	1	2	1	2	1	2	0	0	0	0	1	4
IDRAZIDE MALEICA	1	123-33-1/10071-13-3	R,E	3	1	3	3	2	1	4	3	1	1	2	1	1	1	1	0	1	1	0	1	2
IMAZALIL	1	35554-44-0	F	2	2	1	3	3	1	3	3	2	2	2	2	2	1	3	1	3	2	1	2	5
IMAZAMETABENZ	5	100728-84-5	E,Me	3	1	2	0	0	0	5	1	1	1	1	1	0	0	1	0	2	0	0	1	4
IMAZAMOX	1	114311-32-9	E	3	3	3	3	3	3	5	1	2	1	1	2	2	3	2	0	1	1	1	1	1
IMAZAPIR	5	81334-34-1	E	3	1	2	1	0	2	2	1	1	1	1	2	2	1	1	0	1	0	0	1	3
IMAZAQUIN	2	81335-37-7	E, Re	3	2	3	3	3	3	5	2	1	1	1	2	3	1	1	0	1	1	1	1	1
IMAZETAPIR	5	81335-77-5	E	3	2	3	3	0	3	5	2	1	1	1	2	1	1	1	0	1	1	1	1	1
IMAZOSULFURON	1	122548-33-8	E	2	2	3	3	3	1	4	2	1	2	2	2	1	1	1	0	0	0	1	1	3
IMIDACLOPRID	1	138261-41-3	I	3	3	2	3	3	3	5	3	3	2	2	3	2	1	4	0	3	2	2	1	5
INDOXACARB	1	173584-44-6	I	1	1	1	1	1	1	1	2	3	2	2	3	2	3	5	0	1	3	0	1	5
IODOSULFURON-METIL-SODIO	1	144550-36-7	E	3	1	3	3	1	1	3	3	1	2	2	2	1	1	2	0	1	2	1	1	2
IOXINIL	1	1689-83-4	E,Me	3	1	2	3	1	1	2	3	3	2	2	2	2	1	3	3	2	3	0	1	5
IPCONAZOLO	1	125225-28-7	F	1	2	1	2	3	1	2	2	2	2	2	1	0	3	3	0	2	0	0	1	4
IPRODIONE	1	36734-19-7	F	1	2	1	1	1	1	1	3	1	2	2	2	1	3	3	2	0	2	2	2	3
IPROVALICARB	1	140923-17-7	F	1	1	2	3	3	2	3	2	1	2	2	1	2	3	3	0	0	2	1	2	3
ISOFEFOS	5	25311-71-1	I	1	3	1	3	0	2	3	3	3	2	3	3	2	3	5	0	1	3	1	1	5
ISOPIRAZAM	1	881685-58-1	F	1	3	1	3	3	1	3	0	0	3	2	1	2	0	5	0	0	0	1	2	4
ISOPROPALIN	5	33820-53-0	E	1	2	1	0	0	1	2	1	1	2	3	3	0	3	4	0	0	0	0	0	5
ISOPROTURON	1	34123-59-6	E	2	1	2	3	3	2	3	2	2	2	2	1	1	1	1	0	1	2	0	2	3
ISOXABEN	1	82558-50-7	E	1	3	1	3	1	3	3	3	1	2	2	1	2	3	3	0	2	1	0	1	3
ISOXADIFEN ETILE	1	163520-33-0	E	0	0	0	0	0	0	5	2	0	2	2	0	0	0	5	0	1	0	0	1	3
ISOXAFLUTOLE	1	141112-29-0	E	1	1	2	1	1	1	1	3	1	2	2	1	1	1	1	0	2	2	1	2	3
KRESOXIM-METILE	1	143390-89-0	F	1	1	2	2	1	1	1	2	1	2	2	1	2	3	3	0	1	1	0	2	3
LAMBDA CIALOTRINA	1	91465-08-6	I	1	3	1	3	1	1	2	3	1	3	3	3	1	3	5	0	1	3	1	1	5

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LAMINARINA	1	9008-22-4	F	3	3	0	3	2	0	5	2	1	1	1	2	0	1	1	0	0	0	0	1	4
LENACIL	1	2164-08-1	E	1	3	2	3	3	2	4	1	1	2	2	2	1	1	1	0	0	1	1	1	2
LINDANO	5	58-89-9	I,A	1	3	1	3	3	3	4	3	2	3	2	3	2	3	5	2	2	3	1	3	5
LINURON	1	330-55-2	E	2	2	1	3	1	2	3	3	2	2	2	1	1	2	3	2	3	3	1	2	5
LUFENURON	1	103055-07-8	I,A	1	1	1	3	3	1	2	3	1	2	3	1	2	3	4	0	2	2	0	1	3
MALATION	3	121-75-5	I,A	2	1	2	1	1	1	1	3	2	3	3	3	2	2	5	2	2	2	2	3	5
MANCOZEB	1	8018-01-7 (formerly 8065-67-6)	F	1	1	1	1	2	1	1	1	1	3	3	1	2	1	2	2	3	2	2	2	5
MANDESTROBINA	2	173662-97-0	F	1	3	0	3	3	3	5	1	1	2	2	1	2	3	2	1	2	1	1	1	1
MANDIPROPAMID	1	374726-62-2	F	1	2	1	3	1	2	2	1	2	2	2	1	2	1	1	0	1	2	1	1	2
MANEB	1	12427-38-2	F	2	1	1	1	1	1	1	1	2	3	3	2	2	1	3	2	3	2	1	1	5
MCPA	1	94-74-6	E,Me	3	1	3	3	1	3	4	2	2	2	1	1	2	1	1	1	2	2	2	1	2
MCPB	2	94-81-5	E	3	1	2	3	1	1	2	1	2	2	2	2	2	1	3	0	0	3	0	1	5
MECOPROP	1	7085-19-0	E	3	1	3	3	2	2	4	3	2	1	1	1	2	1	1	0	1	3	3	1	5
MECOPROP-P	1	16484-77-8	E	3	1	3	3	3	1	4	3	2	1	2	1	2	1	2	1	0	3	0	2	5
MEFENPIR-DIETILE	1	135590-91-9	E	1	1	1	2	3	1	1	3	1	2	2	1	1	3	2	0	1	2	1	1	2
MEPANIPYRIM	1	110235-47-7	F,B,T	1	3	1	3	1	2	2	3	1	2	2	2	2	3	3	0	2	2	1	2	3
MEPIQUAT CLORURO	2	15302-91-7	E, Re	3	1	0	3	2	1	3	2	1	1	2	1	2	1	1	0	1	0	0	1	3
MEPTILDINOCAP	1	131-72-6	F	1	1	1	2	1	1	1	1	1	3	3	2	2	3	4	1	1	2	0	1	2
MESOSULFURON-METILE	1	208465-21-8	E	2	2	2	3	2	3	3	1	1	1	2	2	1	1	1	0	1	1	1	1	1
MESOTRIONE	1	104206-82-8	E	3	1	2	3	1	2	3	3	1	1	1	2	2	1	1	0	1	3	1	1	5
METABENZTIAZURON	5	18691-97-9	E	2	3	1	3	3	2	4	1	2	2	2	3	2	1	3	0	0	0	0	0	5
METAFLUMIZONE	1	139968-49-3	I	1	1	1	0	3	1	2	1	1	2	2	2	0	3	3	0	3	0	0	1	5
METALAXIL	1	57837-19-1	F	3	2	2	3	2	2	3	3	2	1	2	1	1	1	1	0	1	2	1	1	2
METALAXIL-M	1	70630-17-0	F	3	1	2	3	2	1	3	3	2	2	2	2	2	1	3	0	1	2	1	1	2
METALDEIDE	1	108-62-3	Mo	2	1	2	3	1	1	2	3	2	2	2	2	1	1	3	0	2	2	2	1	3
METAM POTASSIO	1	137-42-8	E,F,N	3	1	3	1	1	2	2	2	2	2	2	0	0	1	3	2	3	3	0	1	5

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METAM-SODIUM	1	137-42-8	E,F,N	3	1	3	1	1	2	2	2	2	2	2	2	0	1	3	2	3	3	0	2	5
METAMIDOFOS	5	10265-92-6	I,A,Me	3	1	3	1	1	2	2	3	3	2	2	3	2	1	4	0	2	3	3	1	5
METAMITRON	1	41394-05-2	E	3	1	2	3	1	2	3	3	2	2	2	2	2	1	3	0	2	2	0	1	3
METAZACLOR	1	67129-08-2	E	2	1	3	3	1	2	3	3	1	2	2	2	2	1	3	0	0	2	0	1	4
METCONAZOLE	1	125116-23-6	F	1	2	1	3	3	2	3	3	2	2	2	2	2	3	3	0	2	3	0	1	5
METIDATION	5	950-37-8	I,A	2	1	2	1	2	1	1	3	3	3	3	3	3	1	5	0	2	3	1	2	5
METIL-ETOATO	5	0116-01-08	I,A	3	0	3	0	0	0	5	0	0	0	0	0	0	0	5	0	0	0	0	0	5
METIL-ISOTIOCIANATO	5	556-61-6	F,N,E,Me	3	1	3	2	1	0	3	2	2	3	3	2	3	1	4	0	2	3	0	0	5
METIOCARB	1	2032-65-7	I, Mo	1	1	1	1	1	1	1	3	3	2	3	3	2	3	5	0	0	2	0	1	4
METIRAM	1	9006-42-2 / 9063-14-3	F	1	1	1	1	1	1	1	3	1	2	3	2	1	1	2	2	0	2	1	2	3
METOBROMURON	2	3060-89-7	E	2	1	2	3	2	2	3	1	2	2	2	1	2	1	1	0	0	3	0	2	5
METOLACLOR	5	51218-45-2	E	3	2	2	3	3	2	5	3	1	2	2	1	2	3	3	2	0	2	1	2	3
METOMIL	1	16752-77-5	I,A,Me	3	1	3	3	1	2	4	3	3	2	3	3	2	1	5	2	0	3	1	1	5
METOPRENE	5	40596-69-8	I	1	1	1	3	0	1	2	1	1	2	3	2	0	3	3	0	1	2	1	1	2
METOPROTRIN	5	841-06-5	E	2	0	0	0	0	0	5	1	0	2	2	1	0	2	3	0	0	0	0	0	5
METOSSICLORO	5	72-43-5	I	1	3	1	0	0	1	2	1	1	3	3	2	0	3	4	3	2	2	1	1	5
METOSSIFENOZIDE	1	161050-58-4	I	1	3	2	3	3	3	5	3	1	2	2	1	2	3	3	2	1	2	1	1	1
METOSULAM	1	139528-85-1	E	3	1	2	3	1	1	2	3	1	2	2	1	1	1	1	0	1	2	0	2	3
METOXURON	5	19937-59-8	E	3	1	2	1	3	2	3	1	0	2	1	2	1	1	1	0	0	0	3	0	5
METRAFENONE	1	220899-03-6	F	1	3	1	3	1	1	2	3	1	2	2	1	2	3	3	0	1	1	0	2	3
METRIBUZIN	1	21087-64-9	E	3	1	3	3	2	2	4	3	2	2	2	1	2	1	3	2	3	2	1	1	5
METSULFURON-METILE	1	74223-64-6	E,Me	3	1	3	3	3	3	5	1	1	1	1	2	1	1	1	0	1	1	1	1	1
MICLOBUTANIL	1	88671-89-0	F	2	3	1	3	3	3	5	2	2	2	2	2	2	2	3	0	2	2	0	1	3
MILBEMECTINA	1	51596-10-2/51596-11-3	A,I,N	1	1	1	3	0	1	2	3	2	3	3	3	2	3	5	0	0	2	0	1	4
MOLINATE	5	2212-67-1	E	3	1	2	3	2	2	3	3	2	2	2	2	2	2	3	2	3	3	1	2	5
MONOCROTOFOS	5	240494-70-6	I	3	1	3	3	0	2	5	1	1	2	3	3	0	3	4	0	3	0	3	1	5

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoll mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
MONOLINURON	5	1746-81-2	E	3	2	2	3	1	3	4	3	2	2	2	1	1	1	2	0	0	3	0	1	5
NAA	5	86-87-3	R	1	2	2	3	1	3	3	2	1	2	1	1	0	1	1	0	0	0	1	1	3
NAD	1	86-86-2	R	2	1	3	3	0	1	3	2	1	2	2	1	0	1	2	0	0	2	1	1	3
NAPROPAMIDE	1	15299-99-7	E	2	2	1	3	3	2	3	3	1	2	2	1	2	3	3	0	2	1	1	1	2
NAPTALAM	5	132-66-1	E	2	2	3	1	0	3	4	3	1	2	1	1	0	1	2	0	2	2	1	1	2
NEBURON	5	555-37-3	E	1	3	1	3	0	1	2	1	0	2	0	1	0	3	2	0	0	0	0	1	4
NICOSULFURON	1	111991-09-4	E	3	1	3	3	2	3	5	2	1	2	2	2	1	1	1	0	0	1	1	1	2
NICOTINA	5	54-11-5	I	3	1	2	0	0	0	5	3	3	2	2	0	0	1	5	0	3	3	0	1	5
NITROFEN	5	1836-75-5	E	1	1	1	3	0	1	2	1	0	2	2	2	0	3	3	3	3	0	0	3	5
NITROTAL-ISOPROPILE	5	10552-74-6	F	1	1	3	3	3	1	3	1	0	2	1	2	1	1	1	0	0	0	0	0	5
NORURON	5	18530-56-8	E	2	0	1	0	0	0	5	1	0	0	0	0	0	1	5	0	0	0	0	1	4
NOVALURON	5	116714-46-6	I	1	2	1	3	1	1	1	2	1	3	3	1	2	3	4	0	1	3	0	1	5
NUARIMOL	5	63284-71-9	F	1	3	2	2	0	3	4	2	2	2	2	2	1	3	3	0	0	0	0	0	5
OMETOATO	5	1113-02-6	I,A,Me	3	1	3	1	1	1	2	3	3	2	3	3	2	1	5	0	1	3	0	1	5
ORIZALIN	2	19044-88-3	E	1	1	1	3	2	2	2	1	2	2	2	2	2	3	3	1	0	2	1	2	2
ORTHOSULFAMURON	1	213464-77-8	E	3	2	2	1	2	3	3	1	1	2	2	1	1	1	1	0	3	0	1	2	5
OSSICARBOSSINA	5	5259-88-1	F,Me	3	1	3	1	3	3	4	3	2	2	2	1	0	1	3	0	1	1	0	1	2
OSSIDEMETON-METILE	5	301-12-2	I	3	1	3	2	1	1	2	3	3	2	2	3	2	1	4	1	3	3	0	1	5
OSSIFLUORFEN	1	42874-03-3	E	1	2	1	3	0	1	2	1	2	2	2	1	2	3	3	0	0	3	2	2	5
OXADIAZON	1	19666-30-9	E	1	3	1	2	3	2	3	1	1	3	2	1	2	3	2	0	3	3	0	2	5
OXADIXIL	5	77732-09-3	F	3	2	3	3	1	3	5	3	1	1	1	1	1	1	1	0	0	0	0	2	5
OXAMIL	1	23135-22-0	A,I,N	3	1	3	1	1	2	2	3	3	2	2	3	2	1	4	0	0	3	1	1	5
OXASULFURON	1	144651-06-9	E	3	1	2	1	1	2	2	1	1	1	2	1	1	1	1	0	0	2	1	1	3
PACLOBUTRAZOLO	3	76738-62-0	Re	3	1	2	3	3	3	5	3	1	2	2	2	2	3	3	0	2	2	0	1	3
PARAQUAT	5	4685-14-7	E	3	3	1	3	3	1	4	2	2	2	2	2	1	1	3	1	1	3	3	1	5
PARATION	5	56-38-2	I,A	1	2	1	3	1	1	1	3	3	2	3	3	2	3	5	2	1	3	1	2	5

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoll mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
PARATION METILE	5	298-00-0	I	2	1	2	1	1	1	1	3	2	2	3	2	2	2	3	2	0	3	1	1	5
PENCICURON	1	66063-05-6	F	1	2	1	3	3	1	2	1	1	2	2	2	2	3	3	0	0	2	0	1	4
PENCONAZOLO	1	66246-88-6	F	2	3	1	3	3	1	4	3	2	2	2	2	2	3	3	0	3	2	0	1	5
PENDIMETALIN	1	40487-42-1	E	1	3	1	3	1	1	2	1	2	3	2	2	2	3	3	3	0	1	1	2	5
PENFLUFEN	2	494793-67-8	F	1	3	0	3	1	3	4	1	1	2	2	1	2	3	2	0	3	2	0	2	5
PENOX SULAM	1	219714-96-2	E	2	2	2	3	0	3	5	1	1	1	2	1	1	1	1	2	1	2	0	2	3
PENTIOPIRAD	1	183675-82-3	F	1	3	1	3	3	2	4	1	0	2	2	1	2	0	3	0	0	0	0	2	5
PERFLUIDONE	5	37924-13-3	E	2	0	0	0	0	0	5	0	0	0	0	0	0	0	5	0	0	0	0	0	5
PERMETRINA	5	52645-53-1	I	1	1	1	2	2	1	1	2	1	3	3	3	1	3	4	3	3	2	1	1	5
PETOXAMIDE	1	106700-29-2	E	2	1	2	3	1	1	2	3	2	2	2	1	2	2	3	0	0	3	0	0	5
PICLORAM	1	1918-02-1	E	3	2	3	3	3	3	5	1	2	2	2	2	2	1	3	3	0	1	1	2	5
PICOLINAFEN	1	137641-05-5	E	1	1	1	3	1	1	1	3	1	3	3	1	2	3	4	0	1	2	1	1	2
PICOXYSTROBINA	1	117428-22-5	F	1	1	1	3	2	1	1	3	1	3	3	1	3	3	5	0	0	2	1	2	3
PIMETROZINA	1	123312-89-0	I	2	1	1	3	2	1	2	3	1	1	2	1	2	1	1	0	2	2	0	2	4
PINOLENE	1	34363-01-4	Ad	0	0	1	0	0	0	5	1	0	2	2	1	1	3	2	0	1	0	0	1	3
PINOXADEN	1	243973-20-8	E	2	1	2	1	1	1	1	3	1	2	0	1	1	3	2	0	1	2	0	1	3
PIPERONIL BUTOSSIDO	1	51-03-6	I,S	1	1	1	3	0	1	2	3	1	2	2	1	0	3	3	3	2	1	1	1	5
PIRACLOSTROBINA	1	175013-18-0	F	1	2	1	3	1	1	1	1	1	3	3	2	2	3	4	0	2	2	0	1	3
PIRAFLUFEN ETILE	1	129630-19-9	E,D	1	1	1	1	1	1	1	1	1	2	2	1	1	3	1	0	1	1	1	2	2
PIRAZOFOS	5	13457-18-6	F	1	2	1	2	1	2	1	2	2	2	3	3	1	3	4	0	0	3	0	0	5
PIRAZOSSIFEN	5	71561-11-0	E	3	1	1	0	0	1	2	2	0	2	1	0	0	3	5	0	0	0	0	0	5
PIRETRINE	1	8003-34-7	I,A	1	1	1	2	2	1	1	2	1	3	3	3	1	3	4	2	0	2	0	1	3
PIRIDABEN	1	96489-71-3	I,A	1	2	1	3	1	1	1	2	1	3	3	3	2	3	5	0	0	3	0	1	5
PIRIDAFENTION	5	119-12-0	I	2	1	1	2	0	1	2	2	3	2	0	3	0	3	5	0	0	0	1	1	3
PIRIDALYL	2	179101-81-6	I	1	3	0	3	3	1	4	1	2	2	3	1	2	0	3	0	2	2	1	1	2
PIRIDATE	1	55512-33-9	E	1	1	1	1	1	1	1	3	2	2	2	1	2	1	3	0	0	2	0	1	4

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoil mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
PIRIFENOX	5	88283-41-4	F	2	2	1	2	0	2	3	3	1	2	2	2	2	3	3	0	0	2	0	1	4
PIRIMETANIL	1	53112-28-0	F	2	2	2	3	2	2	3	2	1	2	2	1	2	2	3	2	1	1	0	2	2
PIRIMICARB	1	23103-98-2	I	3	2	2	3	3	2	5	3	2	2	3	2	2	1	3	0	1	2	0	2	3
PIRIMIFOS METILE	1	29232-93-7	I,A	1	2	1	3	0	1	2	3	2	2	3	3	0	3	5	0	0	3	0	1	5
PIRIOFENONE	1	688046-61-9	F	1	2	0	2	1	1	2	1	1	2	2	1	2	3	2	0	3	2	0	2	5
PIRIPROXIFEN	1	95737-68-1	I	1	1	1	3	1	1	1	3	2	3	3	2	1	3	5	0	1	2	0	1	3
PIROXSULAM	1	422556-08-9	E	3	1	3	3	0	2	5	1	1	2	1	1	2	1	1	0	0	0	0	1	4
PRETILACLOR	5	51218-49-6	E	2	1	0	3	0	0	5	1	1	2	2	2	0	3	3	0	0	2	0	1	4
PRIMISULFURON	5	113036-87-6	E,Me	2	1	3	3	0	3	5	1	1	2	2	2	1	1	1	0	1	1	0	1	2
PROCIMIDONE	5	32809-16-8	F	1	1	2	1	1	3	1	1	1	2	2	1	1	3	1	3	3	2	0	2	5
PROCLORAZ	1	67747-09-5	F	1	3	1	3	3	2	4	2	2	2	2	1	2	3	3	2	0	3	0	2	5
PROFAM	5	122-42-9	E,R	2	1	2	3	2	2	3	1	1	2	2	2	0	1	2	0	0	0	0	1	4
PROFENOFOS	5	41198-08-7	I,A	1	1	1	3	0	1	2	2	3	3	2	3	0	1	5	0	1	2	0	1	3
PROFOXYDIM	1	139001-49-3	E	1	1	1	3	2	1	1	3	1	2	2	1	1	3	2	0	0	2	1	2	3
PROHEXADIONE CALCIUM	1	127277-53-6	R	3	1	2	2	1	1	2	3	1	1	1	1	1	1	1	0	1	1	0	1	2
PROMETRINA	5	7287-19-6	E	1	2	2	3	2	1	3	1	1	2	2	2	2	3	3	3	1	3	1	1	5
PROPACLOR	5	1918-16-7	E	3	1	2	1	2	1	2	3	3	2	2	2	2	1	3	0	3	0	0	2	5
PROPAMOCARB	1	24579-73-5	F	3	1	0	0	0	2	5	0	0	2	1	2	0	1	2	0	0	0	0	0	5
PROPANIL	5	709-98-8	E	2	1	2	3	1	1	2	2	2	2	2	2	0	1	3	2	0	3	0	2	5
PROPAQUIZAFOP	1	111479-05-1	E	1	1	0	2	0	0	2	3	1	2	2	2	2	3	3	0	2	2	0	2	4
PROPARGITE	5	2312-35-8	A	1	2	1	2	1	1	1	3	1	3	3	2	2	3	5	0	2	3	0	2	5
PROPICONAZOLO	1	60207-90-1	F	2	2	1	2	3	2	3	3	1	2	3	1	2	3	4	0	0	2	1	2	3
PROPINEB	1	12071-83-9/9016-72-2	F	1	1	0	1	1	0	2	1	1	2	2	1	2	1	1	0	2	3	0	2	5
PROPIZAMIDE	1	23950-58-5	E	1	2	1	3	2	1	2	1	1	2	2	1	2	3	2	0	1	2	1	2	2
PROPOXUR	5	114-26-1	I	3	2	3	3	1	3	5	3	3	2	2	2	0	1	3	0	0	2	1	2	3
PROPOXYCARBAZONE	1	145026-81-9	E	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	0	2	0	0	1	4

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PROPOXYCARBAZONE-SODIUM	1	181274-15-7	E	3	1	3	3	3	3	5	1	1	2	1	1	2	1	1	0	2	1	1	1	2
PROQUINAZID	1	189278-12-4	F	1	2	1	3	2	1	2	1	1	3	3	1	2	3	3	0	0	3	0	2	5
PROSULFOCARB	1	52888-80-9	E	1	1	1	3	3	1	2	2	1	2	2	2	2	3	3	0	0	3	0	0	5
PROSULFURON	1	94125-34-5	E	3	2	3	3	3	3	5	3	2	2	1	1	1	1	1	0	0	2	1	1	3
PROTIOCONAZOLO	1	178928-70-6	F	2	1	1	3	1	1	1	3	1	2	2	2	2	3	3	0	2	3	0	1	5
QUINALFOS	5	13593-03-8	I,A	1	1	1	2	0	1	1	3	3	3	3	3	2	3	5	0	2	0	0	1	4
QUINCLORAC	5	84087-01-4	E	1	3	3	0	0	3	5	1	1	1	2	1	0	1	1	0	1	0	0	1	3
QUINMERAC	3	90717-03-6	E	3	1	2	3	3	2	4	2	1	2	1	1	1	1	1	0	0	2	0	1	4
QUINOCLAMINE	2	2797-51-5	E,AI,A	1	1	1	3	1	1	1	3	1	3	3	3	2	1	4	0	0	0	0	0	5
QUINOXIFEN	1	124495-18-7	F	1	2	1	3	3	1	2	1	1	2	3	1	2	3	2	0	1	1	0	1	2
QUIZALOFOP-ETILE	1	76578-14-8	E	1	2	1	1	0	2	2	3	1	2	2	2	1	3	3	0	3	3	0	0	5
QUIZALOFOP-P-TEFURYL	2	119738-06-6	E	1	1	2	1	1	1	1	2	1	2	2	1	2	3	3	0	3	2	0	1	5
QUIZAZOPF-P-ETILE	1	100646-51-3	E	1	1	1	3	1	1	1	3	1	2	2	1	2	3	3	0	2	3	1	1	5
RIMSULFURON	1	122931-48-0	E	3	1	3	1	1	3	3	3	1	1	2	2	1	1	1	0	1	2	0	1	3
ROTENONE	5	83-79-4	I,A	1	1	1	1	0	1	1	3	1	3	3	3	0	3	5	1	1	0	0	1	2
S-METOLACLOR	1	87392-12-9/178961-20-1	E	2	1	2	3	2	2	3	3	1	2	2	2	2	3	3	2	1	2	0	2	3
SCILLIROSIDE	5	507-60-8	Ro	0	0	3	0	0	0	5	3	2	0	0	0	0	1	5	0	0	0	0	1	4
SECBUMETON	5	26259-45-0	E	3	2	2	0	0	3	5	2	0	2	0	0	0	3	5	0	0	0	0	0	5
SEDAXANE	1	874967-67-6	F	1	3	0	0	3	2	5	1	2	2	2	2	2	3	3	0	2	1	0	3	5
SETOSSIDIM	5	74051-80-2	E	3	1	2	3	3	1	4	3	1	1	2	2	2	1	2	0	0	1	1	1	2
SILTHIOFAM	1	175217-20-6	F	1	2	2	3	3	2	3	1	1	2	2	1	2	3	2	0	2	2	1	0	3
SIMAZINA	5	122-34-9	E	1	2	2	2	2	2	3	3	1	2	2	2	1	1	2	2	2	3	1	2	5
SINTOFEN	2	130561-48-7	Re	1	3	1	3	3	1	3	3	1	1	2	1	1	1	1	0	0	0	0	0	5
SOLFOCHINOSSALINA	4	59-40-5	Ro	1	0	0	0	0	0	5	0	0	0	0	0	0	0	5	0	0	0	0	0	5
SPINETORAM	2	187166-40-1 / 187166-15-0	I	1	1	1	3	3	1	2	1	1	2	3	3	2	3	4	0	1	0	1	1	2
SPINOSAD	1	168316-95-8	I	2	1	1	3	0	1	2	3	1	2	3	3	2	3	5	1	0	2	0	1	3

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SPIRODICLOFEN	1	148477-71-8	A,I	1	1	1	2	1	1	1	3	1	3	3	1	1	3	4	0	2	2	0	2	4
SPIROMESIFEN	1	283594-90-1	I	1	1	1	2	1	1	1	1	1	3	3	1	2	3	3	0	2	2	1	1	2
SPIROTETRAMAT	1	203313-25-1	I	1	1	2	1	1	1	1	3	1	2	2	1	2	2	3	0	0	0	1	1	3
SPIROXAMINA	1	118134-30-8	F	2	1	1	3	2	1	2	2	2	2	2	2	1	2	3	0	1	2	0	1	3
SULCOTRIONE	1	99105-77-8	E	2	1	3	3	2	3	4	3	2	2	1	2	1	1	2	0	2	3	0	1	5
SULFOSULFURON	1	141776-32-1	E	3	1	3	3	1	3	4	2	1	2	2	2	2	1	3	0	0	1	0	2	4
SULFOTEP	5	3689-24-5	I,A	1	1	1	1	0	1	1	3	3	3	3	0	0	3	5	0	0	3	0	1	5
SULFOXAFLO	2	946578-00-3	I	3	1	3	0	0	1	3	2	2	1	1	3	3	1	2	0	2	2	0	2	4
TAU-FLUVALINATE	1	102851-06-9	I,A	1	1	1	1	2	1	1	3	1	3	3	2	2	1	4	3	2	3	1	1	5
TCA SODIUM	5	650-51-1	E	3	2	3	0	0	3	5	1	1	1	1	1	0	1	1	0	0	0	0	0	5
TEBUCONAZOLO	1	107534-96-3	F	1	2	1	3	3	3	4	3	2	2	2	2	2	3	3	0	3	2	0	2	5
TEBUFENOZIDE	1	112410-23-8	I	1	3	1	3	3	1	3	3	1	2	2	1	1	3	2	0	1	2	0	1	3
TEBUFENPIRAD	1	119168-77-3	A	1	1	1	3	2	1	1	3	1	3	3	2	2	3	5	0	1	3	0	2	5
TEFLUBENZURON	1	83121-18-0	I	1	2	1	3	1	1	1	3	1	3	3	2	1	3	4	0	1	3	1	2	5
TEFLUTRIN	1	79538-32-2	I	1	2	1	3	2	1	2	3	2	3	3	3	3	3	5	2	0	3	0	1	5
TEMBOTRIONE	1	335104-84-2	E	3	1	3	3	3	2	5	1	2	1	1	2	2	1	1	0	2	3	0	2	5
TEMEFOS	5	3383-96-8	I	1	1	1	1	0	1	1	1	2	2	3	2	0	3	3	0	0	0	2	1	4
TEPP	5	107-49-3	I,A	3	0	0	1	0	0	5	3	3	2	3	0	0	2	5	1	0	0	0	1	3
TEPRALOXIDIM	1	149979-41-9	E	2	1	3	3	2	2	3	1	1	2	2	1	2	1	1	0	0	2	0	2	4
TERBUFOS	5	13071-79-9	I,N	1	1	1	1	0	1	1	3	2	3	3	2	3	3	5	0	0	3	1	1	5
TERBUMETON	5	33693-04-8	E	2	3	2	0	0	3	5	3	0	2	2	1	0	3	5	0	1	2	0	1	3
TERBUTILAZINA	1	5915-41-3	E,AI	1	2	2	3	2	3	3	3	2	2	2	2	2	3	3	0	2	3	0	1	5
TERBUTRINA	5	886-50-0	E	1	2	1	3	2	2	3	1	1	2	2	1	2	3	2	3	0	2	1	2	5
TETRACLORVINOS	5	22248-79-9	I,A	1	1	1	0	0	1	2	1	1	2	3	2	0	3	3	0	0	0	0	2	5
TETRACONAZOLO	1	112281-77-3	F	2	2	1	3	3	2	3	3	2	2	2	2	2	3	3	0	2	3	0	2	5
TETRADIFON	5	116-29-0	A	1	3	2	3	0	3	5	1	1	1	2	2	1	3	1	1	0	0	1	1	2

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoll mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
THIENCARBAZONE-METIL	1	317815-83-1	E	2	1	2	3	1	3	3	0	1	2	2	1	0	1	2	0	1	0	1	1	2
TIABENDAZOLO	1	148-79-8	F	1	3	1	3	1	2	2	3	1	2	2	2	2	1	3	0	2	2	1	2	3
TIACLOPRID	1	111988-49-9	I,Mo	2	1	1	3	1	1	1	3	3	2	2	2	2	1	3	0	0	3	0	2	5
TIAMETOXAM	1	153719-23-4	I	3	2	3	3	2	3	5	2	2	1	1	3	2	1	2	1	1	2	0	1	2
TIDIAZURON	4	51707-55-2	R,E	1	2	1	0	0	1	2	1	1	2	2	1	0	1	1	0	1	0	0	1	3
TIFENSULFURON-METILE	1	79277-27-3	E	2	1	3	3	1	1	2	2	1	1	1	2	1	1	1	1	1	3	0	1	5
TIOBENCARB	5	28249-77-6	E	1	1	1	3	2	2	2	3	1	2	2	1	2	3	3	0	2	3	0	1	5
TIOCARBAZIL	5	36756-79-3	E	1	0	1	0	0	0	2	2	1	2	0	1	0	3	2	0	0	0	0	0	5
TIODICARB	5	59669-26-0	I,Mo	1	1	2	2	1	1	1	3	1	2	3	3	2	1	4	0	0	3	0	2	5
TIOFANATO-METILE	1	23564-05-8	F	1	1	2	2	1	1	1	1	1	2	2	1	2	1	1	0	3	2	3	2	5
TIOFANOX	5	39196-18-4	I,A	3	1	3	1	0	1	2	3	3	2	2	3	0	1	5	0	0	0	0	1	4
TIONAZIN	5	297-97-2	N,I	3	1	0	1	0	0	2	3	0	3	0	0	0	1	5	0	0	0	0	0	5
TIRAM	1	137-26-8	F,Re,Me	1	1	1	1	1	1	1	3	1	3	3	1	2	1	3	2	2	3	2	1	5
TOLCLOFOS-METILE	1	57018-04-9	F	1	1	1	2	1	1	1	3	1	2	2	1	1	3	2	1	1	2	0	1	2
TOLILFLUANIDE	5	731-27-1	F	1	1	0	1	1	0	2	3	1	3	2	1	1	3	3	0	1	2	0	2	3
TRALCOXIDIM	1	87820-88-0	E	1	1	2	3	3	1	2	3	2	2	2	1	1	1	2	0	2	3	0	2	5
TRALOMETRINA	5	66841-25-6	I	1	1	1	3	0	2	2	3	1	3	3	3	0	3	5	0	2	3	0	1	5
TRIADIMEFON	5	43121-43-3	F,Me	2	1	2	3	2	1	3	2	1	2	2	2	2	3	3	2	3	2	1	2	5
TRIADIMENOL	1	55219-65-3	F	2	3	2	3	2	3	5	3	1	2	2	1	2	3	3	3	3	2	0	2	5
TRIALATE	1	2303-17-5	E	1	2	1	3	2	1	2	3	2	2	3	1	2	3	4	0	2	2	1	2	3
TRIASULFURON	1	82097-50-5	E	3	2	3	3	3	3	5	1	1	1	2	2	1	1	1	0	2	3	0	1	5
TRIAZAMATE	5	112143-82-5	I	2	1	2	1	0	1	2	3	3	2	3	2	2	1	4	0	0	3	0	1	5
TRIAZOFOS	5	24017-47-8	A,I,N	1	2	2	3	2	2	3	3	3	3	3	2	2	3	5	0	0	3	0	1	5
TRIAZOXIDE	2	72459-58-6	F	2	2	1	3	1	3	3	3	3	2	2	1	1	1	2	0	2	3	0	0	5
TRIBENURON-METILE	1	101200-48-0	E	3	1	3	1	1	2	2	3	1	1	1	2	1	1	1	0	1	3	1	2	5
TRICICLAZOLO	5	41814-78-2	F	3	3	2	3	3	3	5	3	2	2	2	2	1	1	3	0	1	2	0	1	3

ACTIVE SUBSTANCE	REGULATORY STATE	CAS RN	phytoiatric category	water affinity	soil persistence	Swoll mobility	water persistence	sediment persistence	leachability	WATER SECTOR CIP	mammalian toxicity	bird toxicity	fish toxicity	aquatic invertebrate toxicity	honeybee toxicity	earthworm toxicity	like to bioaccumulate	ECOSYSTEM SECTOR CIP	endocrine system	reproductive system	ADI	mutagenesis	carcinogenesis	HEALTH SECTOR CIP
TRICLOPIR	1	55335-06-3	E	3	2	3	1	1	3	4	3	2	1	1	1	1	3	2	0	2	2	1	1	2
TRICLORFON	5	52-68-6	I	3	1	3	1	0	3	4	3	3	2	3	3	0	1	5	2	2	2	3	1	5
TRIDEMORF	5	81412-43-3/24602-86-6	F	1	1	1	2	2	1	1	3	2	2	2	1	2	3	3	0	3	2	0	1	5
TRIFLOSSISTROBINA	1	141517-21-7	F	1	1	1	2	1	1	1	3	1	3	3	1	1	3	4	0	3	2	0	1	5
TRIFLUMIZOLE	2	99387-89-0	F	1	1	1	1	2	1	1	3	1	2	2	2	0	3	3	0	2	2	0	1	3
TRIFLUMURON	1	64628-44-0	I	1	1	1	3	1	1	1	1	2	3	3	1	2	3	4	0	1	2	0	1	3
TRIFLURALIN	5	1582-09-8	E	1	3	1	3	1	1	2	3	1	3	2	1	2	3	4	3	3	2	1	1	5
TRIFLUSULFURON METILE	1	126535-15-7	E	2	1	3	2	1	2	3	3	1	1	1	1	1	1	1	0	2	2	0	2	4
TRIFORINE	5	26644-46-2	F	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	0	3	2	1	2	5
TRINEXAPAC	6	104273-73-6	Me	2	1	2	3	0	1	2	0	0	1	1	0	0	1	2	0	0	0	0	0	5
TRINEXAPAC ETILE	1	95266-40-3	R	3	1	2	3	1	1	2	3	1	2	2	2	2	1	3	0	0	2	0	1	4
TRITICONAZOLO	1	131983-72-7	F	1	3	2	3	3	3	5	3	1	2	2	1	1	3	2	0	0	2	0	1	4
TRITOSULFURON	1	142469-14-5	E	2	1	0	2	2	3	3	1	0	1	1	1	0	0	2	0	0	0	1	1	3
VALIFENALATO	1	283459-90-0	F	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	0	0	2	0	1	4
VAMIDOTION	5	2275-23-2	I,A	3	1	3	3	1	1	3	3	3	1	2	3	0	1	4	0	0	3	0	1	5
VINCLOZOLIN	5	50471-44-8	F	1	1	2	1	1	2	1	3	1	2	2	1	1	3	2	2	3	3	1	2	5
WARFARIN	5	81-81-2	Ro	2	1	2	3	0	1	2	2	1	2	1	1	0	1	1	0	3	0	0	0	5
ZETA CIPERMETRINA	1	52315-07-8	I	1	2	1	1	1	1	1	3	1	3	3	3	2	3	5	2	2	2	0	2	3
ZINEB	5	12122-67-7	F	1	1	1	1	2	1	1	1	1	2	2	2	2	1	1	2	3	2	2	1	5
ZIRAM	1	137-30-4	F,Re	1	1	1	1	1	1	1	2	3	3	3	1	2	1	4	2	0	3	3	2	5
ZOXAMIDE	1	156052-68-5	F	1	1	1	1	1	1	1	3	1	3	2	1	3	3	4	0	1	1	1	1	1
METABOLITES																								
AMPA	6	GLIFOSATE	1066-51-9	3	3	1	0	3	1	4	1	0	1	1	0	1	1	1	0	0	1	0	0	4
ATRAZINA, DESETIL-	6	ATRAZINA	6190-65-4	3	2	2	0	0	3	5	3	0	0	0	0	0	1	5	0	0	0	0	0	5
ATRAZINA, DESISOPROPIL-	6	ATRAZINA	1007-28-9	3	0	2	0	0	0	5	0	0	0	0	0	0	1	5	0	0	0	0	0	5

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TERBUTILAZINA, DESETIL-	6	TERBUTILAZINA	30125-63-4	2	2	2	3	0	3	5	2	0	2	2	0	2	1	3	0	0	0	0	0	5
3,5,6-TRICLORO-2-PIRIDINOLO	6	CLORPIRIFOS, CLORPIRIFOS-METILE	6515-38-4	2	2	2	0	1	3	3	2	1	2	2	0	3	3	3	0	0	0	0	0	5
2,6-DICLOROBENZAMIDE	6	FLUOPICOLIDE, DICLOBENIL	2008-58-4	3	3	3	3	3	3	5	2	0	1	1	0	2	1	2	0	1	2	0	1	3
ENDOSULFAN SOLFATO	6	ENDOSULFAN	1031-07-8	1	0	1	0	0	0	2	3	0	3	2	0	0	3	5	0	0	0	0	0	5
3,4-DICLOROANILINA	6	LINURON, PROPANIL	95-76-1	3	2	2	3	2	2	3	2	2	3	3	0	2	1	3	0	0	0	0	0	5

LEGEND

Authorized in Italy	1
Authorized in other UE states	2
pending authorization in Italy	3
none authorized commercial product	4
not authorized in UE	5
metabolite	6