



New requirements for labels, safety data sheets and packaging

Plant protection organophosphate and carbamate reassessment

The Environmental Protection Authority (EPA) has reassessed a group of organophosphate and carbamate-based (OPC) insecticides used for plant protection currently approved under the Hazardous Substances and New Organisms Act (HSNO) 1996. In total, 88 approvals for OPC active ingredients and plant protection insecticide formulations were included in the reassessment.

Some of the approvals have been revoked, while others have been approved for a limited time or indefinitely (Table 1).

This document contains:

This document provides guidance for manufacturers and importers about the changes to the HSNO approvals for organophosphates and carbamates (OPCs) used for plant protection. You still need to comply with the rules that were in place before the reassessment that are not mentioned in this document. This document only discusses the rules that have **changed**.

The changes to the approvals mean that labels, safety data sheets and, in some cases, packaging will need to be changed for products containing OPCs. The changes must be in place by **1 July 2015**.

Key information sections

Click below to go to each section.

- A summary of the outcomes of the reassessment
- Changes to label statements
- Other changes to controls for
 - acephate
 - carbaryl
 - chlorpyrifos
 - maldison (malathion)
 - methamidophos
 - pirimiphos-methyl
- Changes to classifications
- Bee statements.

Time limited approvals

Insecticides with time limited approvals will no longer be able to be imported or manufactured in New Zealand after the time limited approval expires – see Table 1. For example, after 1 July 2016 fenitrothion, phorate and formulations containing these active ingredients will no longer be able to be imported or manufactured in New Zealand.

New controls

For some approvals the EPA has put in place additional controls that will manage the risks that these active ingredients and formulations pose to human health and the environment.

From 1 July 2015 labels must include the new controls

From 1 July 2015, manufacturers and importers will be required to reflect the new controls on their product labels. This guidance document explains the label statements manufacturers and importers must include on their products – see Table 2.

The classifications for some approvals have changed

As part of the reassessment, the HSNO classifications for the active ingredients were reviewed resulting in some changes to the classifications of formulated products – see Table 4.

The changes to the classifications have resulted in some of the approvals requiring additional changes to labels and also some changes to safety data sheets and packaging. If you manufacture or import plant protection insecticides containing acephate, carbaryl, chlorpyrifos, maldison (malathion), methamidophos or pirimiphos-methyl you also need to review the rule changes in Table 3.

Table 1. A summary of the outcome of the reassessment

This table shows the active ingredients included in the reassessment and whether they continue to be approved, have a time limited approval or have had their approval revoked.

Approved with additional controls	Time limited approval with additional controls ¹	Time limited approval without additional controls ¹	Declined ²
Acephate	1 July 2028	1 July 2016	Benomyl
Carbaryl	Diazinon	Fenitrothion	Carbofuran
Chlorpyrifos	1 July 2023	Phorate	Carbosulfan
Chlorpyrifos-methyl	Fenamiphos		Dichlofenthion
Dichlorvos	Methamidophos		Ethion
Dimethoate	Prothiofos		Famphur
Maldison (malathion)	Terbufos		Isazofos
Oxamyl			Omethoate
Methomyl			Phoxim
Pirimicarb			Pyrazophos
Pirimiphos-methyl			

NOTES

1. The active ingredients and/or formulations containing them will not be able to be manufactured or imported after the dates specified.
2. Declined active ingredients and/or formulations containing them can no longer be imported or manufactured in New Zealand, effective immediately.

Changes to label statements

Some controls impose new label requirements which may apply to your products depending on the active ingredients. The new requirements for labels are provided below. Consult Table 2 to determine which of the new requirements apply to your product.

1. Application parameters

To limit damage to human health and/or the environment some OPCs have had restrictions imposed on their application, which must be included on the label. These restrictions include maximum application rates and frequencies.

If an approval has had application parameters placed on it, the label must include the following information:

- maximum application rate in grams of active ingredient per hectare
- maximum frequency of application (if one is set).

2. Spray drift

If an approval requires spray drift mitigation, the label must state the following:

The person applying the substance must not cause adverse effects beyond the boundary of the treated property, and must also avoid adverse effects from spray drift occurring. Mitigation measures employed must be recorded as part of the application records.

3. Cover granules

If an approval now requires that granules be covered after application, the label must specify that all granules must be completely covered with soil immediately after application.

4. Restriction on method of application

If restrictions on the method of application apply to the products you manufacture/import then these application restrictions must be specified on the label. Refer to Table 2 to see if your substance requires a label statement. The table will indicate what information is required on the label.

5. Identification as an organophosphate or carbamate substance

The label must clearly state that the product is an organophosphate or a carbamate. The EPA recommends that this information is shown as a priority identifier and is available to the user within two seconds of looking at the label.

6. Label warning of effects on bees

All organophosphates and carbamates that are applied in liquid form will require statements on the label advising the user that the product can harm bees. The label statement will be different depending on whether the product has a classification of 9.4A, 9.4B or 9.4C, as shown below.

If your product is a class 9.4A, 9.4B or 9.4C substance the label must state the following or equivalent:

This product is ***** to bees. Do not apply this product to any plant or tree likely to be visited by bees:

- a. at the time of application; or
- b. immediately after application until spray has dried; or
- c. in areas where bees are foraging.

For 9.4A: ***** = very toxic

For 9.4B: ***** = toxic

For 9.4C: ***** = harmful

Table 5 of this document shows the statement required for each HSNO approval number.

7. Personal protective equipment and respiratory protective equipment

The new controls require the label to specify the personal protective equipment (PPE) and respiratory protective equipment (RPE) required to be worn when mixing, loading or applying an OPC and the PPE and RPE needed when re-entering a treated area.

The PPE that must be specified includes the following:

- chemical resistant coveralls
- chemical resistant gloves
- chemical resistant footwear plus socks
- protective eyewear
- chemical resistant headgear.

If the control also requires respiratory protective equipment to be specified you must specify what needs to be worn to protect against dust, mist, gas or vapour forms of the substance.

The EPA's expectation is that manufacturers will be specific about the type of material the PPE should be made out of and will give specific guidance on the type of respirator to wear.

8. Notification

This control requires the label to inform the user that a person applying the substance in a wide dispersive manner must:

- give written notice to anyone likely to be directly affected (such as owners and occupiers of land, property, buildings or houses immediately next to the application area)
- ensure the notification is given at least two working days before, but no more than four weeks before, each application of the product
- ensure the written notice includes:
 - a. where the product will be applied
 - b. the date and approximate duration of each application
 - c. the steps that notified parties should take to avoid exposure
 - d. the name of the organisation/s applying the product
 - e. contact details for the person in charge of the application (phone, email or postal address, including a contact number for immediate contact during application).

9. Restricted Entry Interval (REI)

A restricted entry interval is the period of time that people must not enter the treated area. If an REI is specified for your product, you must include the following information on the label:

- that the person in charge is responsible for making sure no person enters the application area before the end of the REI
- the period of time the REI lasts for, and
- that a person may only enter the indoor treated area if PPE and RPE is worn as if they were applying the substance, and they are entering to carry out tasks associated with the ventilation of the building or building structure.

10. Approved handler

If your product must be under the control of an approved handler, the label must inform the user that the product must only be applied by an approved handler or under the direct supervision of an approved handler.

Table 2. New label statements required from 1 July 2015 for insecticides that contain the 18 active ingredients that have been approved indefinitely or for a limited time period.

Key – Grey fields indicate the label statement is required and may provide information about what must be on the label in addition to the information provided on the previous pages of this document.

Active ingredient and approval numbers	Application parameters	Spray drift mitigation	Cover granules	Method restrictions	Identification as organophosphate or carbamate	Warning of effect on bees	Personal Protective Equipment	Notification	Restricted Entry Interval (REI)	Approved handler
Acephate HSR000154 HSR000155 HSR000156 HSR000157* HSR000158*	Max. rate = 3500 g / ha Frequency = 3 times / crop cycle	Required	Not required	Label must inform the user that only automatic application of this product is permitted indoors	Required	Required	Full PPE and RPE required	Required	24 hours	Required
Carbaryl HSR007696 HSR000441 HSR000450* HSR000594 HSR000680 HSR000681	Max. rate = 2700 g / ha. Frequency = 3 times / crop cycle	Required	Not required	Not required	Required	Required	Full PPE and RPE required	Required	12 hours	Required

* For approval numbers with an asterisk beside them you also need to check Table 3 for additional changes to the rules as a result of the reassessment.

Active ingredient and approval numbers	Application parameters	Spray drift mitigation	Cover granules	Method restrictions	Identification as organophosphate or carbamate	Warning of effect on bees	Personal Protective Equipment	Notification	Restricted Entry Interval (REI)	Approved handler
Chlorpyrifos (liquid) HSR000165 HSR000171 HSR000173 HSR000224 HSR000225 HSR100018	Max. rate = 1500 g / ha.	Required	Not required	Not required	Required	Required	Full PPE required	Label statement needs to specify that notification is only required for aerial application	24 hours	Required
Chlorpyrifos (granules) * HSR000163 HSR000170 HSR007698	Max. rate = 1500 g / ha. Frequency = 1 time / crop cycle	Not required	Required	Not required	Required	Not required	Full PPE and RPE required	Not required	Not required	Required
Diazinon (liquid) HSR000174 HSR000177 HSR000178 HSR000179 HSR007700 HSR000180 HSR000181 HSR000182 HSR000183 HSR000184 HSR002481	Max. rate = 2400 g / ha. Frequency = 2 times / crop cycle	Required	Not required	Label needs to specify that only automatic application is permitted indoors	Required	Required	Full PPE and RPE required	Required	24 hours	Required

* For approval numbers with an asterisk beside them you also need to check Table 3 for additional changes to the rules as a result of the reassessment.

Active ingredient and approval numbers	Application parameters	Spray drift mitigation	Cover granules	Method restrictions	Identification as organophosphate or carbamate	Warning of effect on bees	Personal Protective Equipment	Notification	Restricted Entry Interval (REI)	Approved handler
Diazinon (granule) HSR000175 HSR000176	Max. rate = 3000 g / ha. Frequency = 2 times / crop cycle	Required	Not required	Not required	Required	Not required	Full PPE and RPE required	Label statement needs to specify that notification is only required for aerial application	Not required	Required
Dichlorvos HSR000126	Not required	Not required	Not required	Not required	Not required	Not required	Label statement must inform the user that they must wear gloves and use tweezers when handling unpackaged strips	Not required	Not required	Not required
Dimethoate HSR000188 HSR000191 HSR000193 HSR000965 HSR100129	Max. rate = 400 g / ha Frequency = 3 times / crop cycle	Required	Not required	Not required	Required	Required	Full PPE and RPE required	Required	48 hours	Required

Active ingredient and approval numbers	Application parameters	Spray drift mitigation	Cover granules	Method restrictions	Identification as organophosphate or carbamate	Warning of effect on bees	Personal Protective Equipment	Notification	Restricted Entry Interval (REI)	Approved handler
Fenamiphos HSR000198 HSR000956 HSR002480 HSR007769 HSR007984 HSR100282	Max. rate = 8000 g / ha Frequency = 1 time / crop cycle	Required	Not required	Label needs to specify that aerial application of this product is prohibited	Required	Required	Full PPE and RPE required	Required	48 hours	Required
Fenitrothion HSR000201	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Maldison / Malathion HSR000189	Not required	Not required	Not required	Label needs to specify that this can only be used to make baits. Baits must be dyed blue or green	Required	Not required	Full PPE and RPE required	Not required	Not required	Required
Maldison / malathion HSR000190	Max. rate = 4500 g / ha Frequency = 2 times / crop cycle	Required	Not required	Not required	Required	Required	Full PPE and RPE required	Required	24 hours	Required
Maldison / malathion HSR100407*	Not required	Not required	Not required	Not required	Required	Not required	Full PPE and RPE required	Not required	Not required	Required

* For approval numbers with an asterisk beside them you also need to check Table 3 for additional changes to the rules as a result of the reassessment.

Active ingredient and approval numbers	Application parameters	Spray drift mitigation	Cover granules	Method restrictions	Identification as organophosphate or carbamate	Warning of effect on bees	Personal Protective Equipment	Notification	Restricted Entry Interval (REI)	Approved handler
Methamidophos HSR000203* HSR000226*	Max. rate = 900 g / ha.	Required	Not required	Not required	Required	Required	Full PPE and RPE required	Required	48 hours	Required
Methomyl HSR000584	Max. rate = 480 g / ha.	Required	Not required	Label needs to specify that it cannot be applied indoors with the use of high pressure handgun spray equipment	Required	Required	Full PPE and RPE required	Label statement needs to specify notification only required for outdoor use	Label statement needs to specify: REI is 24 hours (for boom, aerial or knapsack application at rates ≤300 g / ha) otherwise REI is 48 hours	Required
Methomyl HSR007761	Max. rate = 480 g / ha.	Not required	Not required	Not required	Required	Not required	Full PPE and RPE required	Not required	REI is 48 hours	Required
Oxamyl HSR000791	Max. rate = 6720 g / ha.	Required	Not required	Label needs to specify: 1) Aerial application of this product is prohibited 2) Only automatic application of this product is permitted indoor	Required	Required	Full PPE and RPE required	Label statement needs to specify: notification only required for outdoor use	Label statement needs to specify: REI is 24 hours (unless applied by dosing via irrigation system, or if applied directly to soil before crop foliage has developed)	Required
Phorate HSR000210	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required

* For approval numbers with an asterix beside them you also need to check Table 3 for additional changes to the rules as a result of the reassessment.

Active ingredient and approval numbers	Application parameters	Spray drift mitigation	Cover granules	Method restrictions	Identification as organophosphate or carbamate	Warning of effect on bees	Personal Protective Equipment	Notification	Restricted Entry Interval (REI)	Approved handler
Pirimicarb HSR000703 HSR000704 HSR007884 HSR008052	Not required	Required	Not required	Not required	Required	Required	Full PPE only	Not required	24 hours	Required
Pirimiphos-methyl HSR000187* HSR000192 HSR100602	1425 g/ha Frequency = 4 x crop cycle	Required	Not required	Label needs to specify this product cannot be applied indoors with high pressure handgun spray equipment	Required	Required	Full PPE and RPE required	Label statement needs to specify: notification only required for outdoor use	12 hours	Required
Pirimiphos-methyl (applied as a smoke generator) HSR000186	Not required	Not required	Not required	Not required	Required	Not required	Full PPE only Note that full PPE & RPE are required if entering before 12 hours has passed	Not Required	12 hours	Required
Prothiofos HSR000200	Max. rate = 500 g / ha. Frequency = 1 time / crop cycle	Required	Not required	Label needs to specify that aerial application of this product is prohibited	Required	Required	Full PPE and RPE required	Required	48 hours	Required
Terbufos HSR000216	Max. rate = 1500 g / ha.	Not required	Required	Not required	Required	Not required	Full PPE and RPE required	Not required	Not required	Required

* For approval numbers with an asterisk beside them you also need to check Table 3 for additional changes to the rules as a result of the reassessment.

Other changes to controls

Table 3.

Changes to the HSNO classifications have resulted in some additional controls being triggered and some being removed. This table shows which controls have been triggered for each approval. If an approval number is not listed, no additional controls have been triggered. These additional controls must be in place by 1 July 2015.

Active ingredient	HSNO approval number	Default controls triggered as a result of the reassessment	Default controls removed as a result of the reassessment
Acephate	HSR000157	Hazardous Substances (Identification) Regulations 2001 Regulation 8 – Priority identifiers for corrosive substances Regulation 19 – Secondary identifiers for corrosive substances Regulation 40 – Specific documentation requirements for corrosive substances	-
		Hazardous Substances (Packaging) Regulations 2001 Regulation 20 – Packaging requirements for corrosive substances Schedule 2 – Packaging requirements equivalent to UN Packing Group II (Schedule 3 revoked)	Schedule 3 – Packaging requirements equivalent to UN Packing Group III
		Hazardous Substances (Emergency Management) Regulations 2001 Regulation 8 (a) – Information requirements for corrosive substances	-

Active ingredient	HSNO approval number	Default controls triggered as a result of the reassessment	Default controls removed as a result of the reassessment
Acephate	HSR000158	<p>Hazardous Substances (Identification) Regulations 2001 Regulation 8 – Priority identifiers for corrosive substances Regulation 14 – Priority identifiers for toxic substances Regulation 19 – Secondary identifiers for corrosive substances Regulation 40 – Specific documentation requirements for corrosive substances Regulation 53 – Advertising corrosive and toxic substances</p> <p>Hazardous Substance (Packaging) Regulations 2001 Regulation 20 – Packaging requirements for corrosive substances</p> <p>Hazardous Substances (Emergency Management) Regulations 2001 8(a) – Information requirements for corrosive substances</p>	-
Carbaryl	HSR000450	<p>Hazardous Substance (Packaging) Regulations 2001 Regulation 19(2) now applies</p>	<p>Hazardous Substance (Packaging) Regulations 2001 The following variation to Regulation 19 (2) will no longer apply: Regulation 19(2) is replaced by: (2) Every package containing 200 mL or less of this substance must be child resistant</p>
Chlorpyrifos	HSR000163	<p>Hazardous Substances (Identification) Regulations 2001 Regulation 14 – Priority identifiers for toxic substances Regulation 36(8) – Durability of information for class 6.1 substances</p> <p>Hazardous Substances (Packaging) Regulations 2001 Regulation 19 – Packaging requirements for toxic substances</p> <p>Hazardous Substances (Emergency Management) Regulations 2001 Regulation 8(e) – Information requirements for toxic substances</p>	-
Maldison/malathion	HSR100407	<p>Hazardous Substances (Emergency Management) Regulations 2001 Regulation 8(e) – Information requirements for toxic substances</p>	-

Active ingredient	HSNO approval number	Default controls triggered as a result of the reassessment	Default controls removed as a result of the reassessment
Methamidophos	HSR000203	Hazardous Substances (Identification) Regulations 2001 Regulation 8 – Priority identifiers for corrosive substances Regulation 19 – Secondary identifiers for corrosive substances Regulation 40 – Specific documentation requirements for corrosive substances	-
		Hazardous Substances (Packaging) Regulations 2001 Regulation 20 – Packaging requirements for corrosive substances	-
		Hazardous Substances (Emergency Management) Regulations 2001 Regulation 8(a) – Information requirements for corrosive substances	-
Methamidophos	HSR000226	Hazardous Substances (Identification) Regulations 2001 Regulation 8 – Priority identifiers for corrosive substances Regulation 19 – Secondary identifiers for corrosive substances Regulation 40 – Specific documentation requirements for corrosive substances	-
		Hazardous Substances (Packaging) Regulations 2001 Regulation 20 – Packaging requirements for corrosive substances	-
		Hazardous Substances (Emergency Management) Regulations 2001 Regulation 8(a) – Information requirements for corrosive substances	-
Pirimiphos-methyl	HSR000187	-	Hazardous Substances (Identification) Regulations 2001 Regulation 36(8) – Durability of information for class 6.1 substances

Changes to classifications

Table 4. Amended classifications for each OPC approval

The amended classifications are effective immediately but manufacturers and importers have until 1 July 2015 to update affected labels and safety data sheets, as necessary.

Classifications with strike through have been removed from the approval. Classifications underlined are new to the approval.

Active ingredient / changes to classification	HSNO approval number	Classification
Acephate	HSR002724 (active ingredient, only used for manufacture of other substances)	6.1D (oral), 6.7B , 6.8B, 6.9A, <u>9.1B</u> , 9.1D , 9.3B, 9.4A
	HSR000154	6.1D (oral), 6.3A, 6.4A, 6.7B , 6.8A, 6.8C, 6.9A, <u>9.1D</u> , 9.3C, 9.4B
	HSR000155	6.1D (oral), 6.7B , 6.8A, 6.8B , 6.9A, 9.1D, 9.3B, 9.4A
	HSR000156	6.7B ; 6.8B, 6.9B, 9.1C, <u>9.3C</u> , 9.4B
	HSR000157	3.1D, 6.1E (oral), 6.3A , <u>8.2B</u> , 6.4A , 8.3A , 6.7B 6.8A, 6.8C, 6.9B, 9.1D, 9.3C, 9.4B
	HSR000158	<u>6.1E (oral)</u> , 6.3A, <u>8.3A</u> , 6.4A , 6.7B , 6.8A, <u>6.8C</u> , 6.9B, 9.3C, 9.4C
Carbaryl	HSR007696	6.1D (oral), 6.4A, 6.5B, 6.7B, 6.9B (<u>oral</u>), 9.1A, <u>9.2B</u> , 9.2C , 9.3C, 9.4B
	HSR000441	6.1D (oral), 6.1E (inhalation), 6.4A, 6.7B, 6.9B (<u>oral</u>), <u>9.1A</u> , 9.1B , <u>9.2B</u> , 9.2D , 9.3B, 9.4A
	HSR000450	6.1C (oral), 6.1E (dermal) , 6.5B, 6.7B, 6.9B (<u>oral</u>), 9.1A, <u>9.2A</u> , 9.2B ; 9.3B, 9.4A
	HSR000594	6.1D (oral), 6.4A, 6.5B, 6.7B, 6.9B (<u>oral</u>), 9.1A, <u>9.2B</u> , 9.2D , 9.3C, 9.4B
	HSR000680	6.1C (oral), 6.1E (dermal) , <u>6.5B</u> , 6.7B, 6.9B, 9.1A, <u>9.2A</u> , 9.2B ; 9.3B, 9.4A
	HSR000681	6.1C (oral), 6.1E (dermal) , <u>6.3B</u> , 6.4A, 6.7B, 6.9B, 9.1A, <u>9.2A</u> , 9.2B , 9.3B, 9.4A
Chlorpyrifos	HSR000163	<u>6.1D (oral)</u> , 6.1E (dermal), 6.8B , <u>6.9A</u> , 6.9B , 9.1A, 9.3C, 9.4A
	HSR000165	6.1C (oral), 6.1C (dermal), 6.3B, 6.4A, <u>6.8B</u> , 6.9A, 9.1A, 9.2B, 9.3A, 9.4A
	HSR000170	6.1D (oral), 6.1E (dermal), 6.3B, 6.4A, 6.8B , 6.9B, 9.1A, 9.2C, 9.3B, 9.4A
	HSR000171	3.1C, 6.1C (oral), 6.1E (dermal), 6.1D (inhalation), 6.3B, 6.4A, <u>6.8B</u> , 6.9A, 9.1A, 9.2B, 9.3A, 9.4A
	HSR000173	6.1D (oral), 6.1D (dermal), <u>6.3B</u> , 6.4A, 6.5B, 6.6A, 6.8A, 6.9B, 9.1A, 9.2C, 9.3B, 9.4A

Active ingredient / changes to classification	HSNO approval number	Classification
Chlorpyrifos	HSR000224	3.1D, 6.1C (oral), 6.1C (dermal), <u>6.1D (inhalation)</u> , <u>6.1E (aspiration)</u> , 6.3B, 6.4A, <u>6.8B</u> , 6.9A, 9.1A, 9.2B, 9.3A, 9.4A
	HSR000225	3.1C, 6.1C (oral), 6.1C (dermal), <u>6.1D (inhalation)</u> , 6.3A, 6.4A, 6.8B, 6.9A, 9.1A, 9.2B, 9.3A, 9.4A
	HSR007698	6.1D (oral), <u>6.1E (dermal)</u> , <u>6.3B</u> , <u>6.4A</u> , <u>6.8B</u> , 6.9B, 9.1A, 9.2C, 9.3B, 9.4A
	HSR100298	6.1C (oral), 6.1C (dermal), 6.3B, 6.4A, <u>6.8B</u> , 6.9A, 9.1A, 9.2B, 9.3A, 9.4A
	HSR100018	6.1D (oral), 6.1C (dermal), 6.3B, 6.4A, <u>6.8B</u> , 6.9A, 9.1A, 9.2C, 9.3B, 9.4A
Chlorpyrifos-methyl	HSR004064 (active ingredient, only used for manufacture of other substances)	6.1D (oral), 6.1D (dermal), <u>6.5B</u> , 6.9A, 9.1A, <u>9.2D</u> , 9.3C, 9.4A
	HSR100326	6.1E (oral), 6.1E (dermal), <u>6.1E (aspiration)</u> , <u>6.3B</u> , <u>6.5B</u> , 6.9A (oral), 9.1A, <u>9.2D</u> , <u>9.3C</u> , 9.4A
	HSR100299	6.1E (oral), <u>6.1E (dermal)</u> , <u>6.1E (aspiration)</u> , <u>6.3B</u> , <u>6.5B</u> , 6.9A (oral), 9.1A, <u>9.2D</u> , <u>9.3C</u> , 9.4A
Diazinon	HSR000174	3.1C, 6.1D (oral), 6.1C (dermal), 6.1D (inhalation), 6.3A, <u>6.3B</u> , 6.4A, <u>6.7B</u> , 6.8B, 6.9A, 9.1A, <u>9.2B</u> , <u>9.2D</u> , 9.3A, 9.4A
	HSR000175	6.1D (oral), 6.1E (dermal), 6.8B, 6.9A, 9.1A, 9.2D, 9.3A, 9.4A
	HSR000176	6.8B, 6.9B, 9.1A, <u>9.2D</u> , 9.3A, 9.4A
	HSR000177	6.1D (oral), 6.1D (dermal), 6.1D (inhalation), 6.8B, 6.9A, 9.1A, <u>9.2B</u> , <u>9.2D</u> , 9.3A, 9.4A
	HSR000178	3.1C, 6.1D (oral), 6.1D (dermal) , <u>6.1E (dermal)</u> , 6.1D (inhalation) , 6.3B, 6.4A, 6.8B, 6.9A, 9.1A, <u>9.2B</u> , 9.3A, 9.4A
	HSR000179	3.1C, 6.1D (oral), 6.1D (dermal), 6.1D (inhalation), <u>6.1E (aspiration)</u> , 6.3B, 6.4A , 6.5A, 6.5B, 6.8B, 6.9A, 9.1A, <u>9.2B</u> , <u>9.2D</u> , 9.3A, 9.4A
	HSR007700	6.1D (oral), 6.1D (dermal), <u>6.1D (inhalation)</u> , <u>6.3A</u> , <u>6.4A</u> , 6.5B, 6.8B, 6.9A, 9.1A, <u>9.2B</u> , <u>9.2D</u> , 9.3A, 9.4A
	HSR000180	6.1D (oral), 6.1D (dermal), 6.1D (inhalation), 6.8B, 6.9A, 9.1A, <u>9.2B</u> , <u>9.2D</u> , 9.3A, 9.4A
	HSR000181	3.1D, 6.1C (oral), 6.1C (dermal) , <u>6.1D (dermal)</u> , 6.1D (inhalation), 6.3A, 6.4A, 6.8B, 6.9A, 9.1A, <u>9.2B</u> , <u>9.2D</u> , 9.3A, 9.4A
	HSR000182	6.1E (oral), 6.1D (dermal), 6.3A, 6.4A, 6.5B, 6.8B, 6.9A, 9.1A, <u>9.2D</u> , 9.3A, 9.4A
	HSR000183	6.1D (oral), 6.1C (dermal), 6.1D (inhalation), 6.3A, 6.4A, 6.8B, 6.9A, 9.1A, <u>9.2B</u> , <u>9.2D</u> , 9.3A, 9.4A
	HSR000184	3.1D, 6.1D (oral), 6.1D (dermal), <u>6.1D (inhalation)</u> , 6.3B, 6.8B, 6.9A, 9.1A, <u>9.2B</u> , <u>9.2D</u> , 9.3A, 9.4A
	HSR002481	3.1D, 6.1D (oral), 6.1C (dermal) , <u>6.1D (dermal)</u> , 6.1D (inhalation), 6.3B, 6.8B, 6.9A, 9.1A, <u>9.2B</u> , <u>9.2D</u> , 9.3A, 9.4A
Dichlorvos	HSR000126	6.1D (oral), 6.1E (dermal), 6.1B (inhalation), <u>6.3B</u> , <u>6.4A</u> , 6.5B, <u>6.6B</u> , 6.7B, 6.9A, 9.1A, <u>9.2D</u> , <u>9.3A</u> , <u>9.3B</u> , 9.4A
	HSR001757 (EXPORT APPROVAL ONLY)	<u>6.1B (oral)</u> , 6.1C (dermal), 6.1A (inhalation) , <u>6.1B (inhalation)</u> , <u>6.3B</u> , <u>6.4A</u> , 6.5B, <u>6.6B</u> , 6.7B, 6.9A, 9.1A, <u>9.2D</u> , <u>9.3A</u> , <u>9.3B</u> , <u>9.4A</u> , <u>9.4B</u> ,

Active ingredient / changes to classification	HSNO approval number	Classification
Dimethoate	HSR002841 (active ingredient, only used for manufacture of other substances)	6.1C (oral) , <u>6.1D (oral)</u> , 6.1D (dermal) , <u>6.1E (dermal)</u> , 6.4A, 6.8B, 6.9A, 9.1A, <u>9.1B</u> , <u>9.2B</u> , 9.2D, 9.3A, 9.4A
	HSR000188	3.1C, 6.1D (oral), <u>6.1E (aspiration)</u> , 6.4A, 6.8B, 6.9A, 9.1A, <u>9.1B</u> , 9.2B, 9.3A, 9.4A
	HSR000191	3.1D, 6.1D (oral), <u>6.1E (aspiration)</u> , 6.3B, 6.4A, 6.8B, 6.9A, 9.1B, 9.2C, <u>9.2D</u> , 9.3B, 9.4A
	HSR000193	3.1C, 6.1C (oral) , <u>6.1D (oral)</u> , 6.1D (dermal), 6.3B, 6.4A, 6.8A, 6.9A, 9.1A, <u>9.1B</u> , 9.2B, 9.3A, 9.4A
	HSR000965	3.1C, 6.1C (oral) , <u>6.1D (oral)</u> , 6.1D (dermal), 6.4A, 6.8B, 6.9A, 9.1A, <u>9.1B</u> , 9.2B, 9.3A, 9.4A
	HSR100129	3.1C, 6.1C (oral), 6.5A, 6.5B, 6.8B, 6.9A, 9.1B, 9.2B, 9.3A, 9.4A
Fenamiphos	HSR000198	3.1C, 6.1B (oral), 6.1C (dermal), <u>6.1D (inhalation)</u> , 6.3A, 6.4A, 6.8B, 6.9A (oral, dermal, inhalation), 9.1A, 9.2B, <u>9.2D</u> , 9.3A, 9.4A
	HSR000956	3.1D, 6.1B (oral), 6.1C (dermal), 6.1C (inhalation) , <u>6.1D (inhalation)</u> , 6.3A , 6.3B, 6.4A, 6.9A (oral, dermal, inhalation), 9.1A, 9.2B, <u>9.2D</u> , 9.3A, 9.4A
	HSR002480	3.1D, 6.1B (oral), 6.1C (dermal), 6.1D (inhalation), <u>6.1E (aspiration)</u> , 6.3B, 6.4A, 6.9A (oral, dermal, inhalation), 9.1A, 9.2B, <u>9.2D</u> , 9.3A, 9.4A
	HSR007769	3.1C, 6.1B (oral), 6.1C (dermal), 6.1D (inhalation), <u>6.1E (aspiration)</u> , 6.3B, 6.4A, 6.9A (oral, dermal, inhalation), 9.1A, 9.2B, <u>9.2D</u> , 9.3A, 9.4A
	HSR007894	6.1B (oral), 6.1B (dermal) , 6.1D (dermal) , 6.1D (inhalation), 6.4A, 6.9A (oral, dermal, inhalation), 9.1A, 9.2B, <u>9.2D</u> , 9.3A, 9.4A
	HSR100282	3.1C, 6.1B (oral), 6.1C (dermal), 6.1D (inhalation), <u>6.1E (aspiration)</u> , 6.3B, 8.3A, 6.9A (oral, dermal, inhalation), 9.1A, 9.2B, 9.2D, 9.3A, 9.4A
Fenitrothion	HSR000201	3.1C, 6.1C (oral) , <u>6.1D (oral)</u> , <u>6.1C (dermal)</u> , 6.1E (dermal) , <u>6.1E (inhalation)</u> , 6.3A, 8.3A, 6.5B, 6.8B, 6.9A, 9.1A, <u>9.2D</u> , 9.3A, 9.4A
Maldison / malathion	HSR000189	6.1D (oral), 6.1E (dermal), 6.1E (inhalation), 6.3B, 6.4A, <u>6.5B</u> , 6.8B, 6.9A, 9.1A, <u>9.2B</u> , 9.3B, 9.4A
	HSR000190	3.1C, 6.1D (oral), 6.1E (dermal), 6.3B, 6.4A, <u>6.5B</u> , 6.8B, 6.9A, 9.1A, <u>9.2B</u> , 9.3B, 9.4A
	HSR100407	<u>6.5B</u> , 6.8B, 6.9B, 9.1A, 9.4B
Methamidophos	HSR002863 (active ingredient only, only used for manufacture of other substances)	6.1B (oral), 6.1B (dermal), 6.1B (inhalation), <u>8.2C</u> , 6.4A , <u>8.3A</u> , 6.9A, 9.1A, 9.2B, 9.3A, 9.4A
	HSR000203	3.1D, 6.1B (oral), 6.1B (dermal), 6.1B (inhalation), <u>8.2C</u> , 6.4A , <u>8.3A</u> , 6.9A, 9.1A, 9.2B, 9.3A, 9.4A
	HSR000226	3.1D, 6.1B (oral), 6.1B (dermal), 6.1B (inhalation), <u>8.2C</u> , 6.4A , <u>8.3A</u> , 6.9A, 9.1A, 9.2B, 9.3A, 9.4A
Methomyl	HSR000584	3.1B, 6.1C (oral), <u>6.1D (dermal)</u> , 6.1D (inhalation), 6.4A, 6.8B, 6.9A, 9.1A, 9.2B, <u>9.2D</u> , 9.3B, 9.4A
	HSR007761	6.1D (oral), 6.4A, 6.8B, 6.9B, 9.1A, 9.2C, 9.3C, 9.4B

Active ingredient / changes to classification	HSNO approval number	Classification
Oxamyl	HSR000791	3.1C, 6.1B (oral), 6.1D (dermal) , 6.1B (inhalation) , 6.4A, 6.8B, 6.9A, 9.1B, 9.2B , 9.2D , 9.3A, 9.4A
Phorate	HSR003058 (active ingredient, only used for manufacture of other substances)	6.1A (oral), 6.1A (dermal), 6.1A (inhalation), 6.8B, 6.9A (oral, other), 9.1A, 9.2A , 9.2B, 9.3A, 9.4A
	HSR000210	6.1B (oral), 6.1A (dermal), 6.8B, 6.9A, 9.1A, 9.2B , 9.2C , 9.3A, 9.4B
Pirimicarb	HSR000703	6.1C (oral), 6.1C (inhalation) , 6.1D (inhalation) , 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.3A, 9.4B , 9.4C ,
	HSR000704	6.1C (oral), 6.1C (inhalation) , 6.1D (inhalation) , 6.3B, 6.4A, 6.9B, 9.1A, 9.3A, 9.4B , 9.4C
	HSR007884	6.1C (oral), 6.1C (inhalation) , 6.1D (inhalation) , 6.4A, 6.5B, 6.9B, 9.1A, 9.3A, 9.4B , 9.4C
	HSR008052	3.1D, 6.1D (oral), 6.1D (inhalation), 6.1E (aspiration) , 8.2C, 8.3A, 6.5B, 6.9B, 9.1A, 9.2C, 9.3B, 9.4C
Pirimiphos-methyl	HSR000186 (applied as a smoke generator)	6.1E (oral), 6.1E (dermal) , 6.1D (inhalation) , 6.3B, 6.4A, 6.8B, 6.9A, 9.1A, 9.3B, 9.4B
	HSR000187	3.1C, 6.1D (oral) , 6.1E (oral) , 6.1E (dermal), 6.3B, 6.4A, 6.5A, 6.5B, 6.8B, 6.9A, 9.1A, 9.2D , 9.3A, 9.4A
	HSR000192	3.1C, 6.1E (oral) , 6.1E (aspiration) , 6.3B, 6.4A, 6.5A , 6.5B, 6.8B, 6.9A , 6.9B , 9.1A, 9.3B, 9.4B
	HSR100602	3.1D, 6.1E (oral), 6.1E (dermal), 6.1E (aspiration) , 6.3A, 6.4A, 6.5A, 6.5B, 6.8B, 6.9A, 9.1A, 9.2D , 9.3A, 9.4A
Prothiofos	HSR000200	3.1C, 6.1D (oral), 6.1E (dermal) , 6.3A, 6.4A, 6.5B, 6.9A, 9.1A, 9.3B, 9.4B
Terbufos	HSR000216	6.1B (oral), 6.1A (dermal), 6.1A (inhalation), 8.2C, 8.3A, 6.8B, 6.9A, 9.1A, 9.3A, 9.4C

Bee statements

Table 5.

This table gives you the warning statement to insert into the label statement for bees as discussed on page 3 of this document.

Active	Approval number	Statement for bees
Acephate	HSR000154	Toxic
	HSR000155	Very toxic
	HSR000156	Toxic
	HSR000157	Toxic
	HSR000158	Harmful
Carbaryl	HSR007696	Toxic
	HSR000441	Toxic
	HSR000450	Very toxic
	HSR000594	Toxic
	HSR000680	Very toxic
	HSR000681	Very toxic
Chlorpyrifos - liquid	HSR000165	Very toxic
	HSR000171	Very toxic
	HSR000173	Very toxic
	HSR000224	Very toxic
	HSR000225	Very toxic
	HSR10018	Very toxic
Diazinon – liquid	HSR000174	Very toxic
	HSR000177	Very toxic
	HSR000178	Very toxic
	HSR000179	Very toxic
	HSR007700	Very toxic
	HSR000180	Very toxic
	HSR000181	Very toxic
	HSR000182	Very toxic
	HSR000183	Very toxic
	HSR000184	Very toxic
	HSR002481	Very toxic

Active	Approval number	Statement for bees
Dimethoate	HSR000188	Very toxic
	HSR000191	Very toxic
	HSR000193	Very toxic
	HSR000965	Very toxic
	HSR000129	Very toxic
Fenamiphos	HSR000198	Very toxic
	HSR000956	Very toxic
	HSR002480	Very toxic
	HSR007769	Very toxic
	HSR007894	Very toxic
	HSR100282	Very toxic
Maldison / malathion	HSR000190	Very toxic
Methamidophos	HSR000203	Very toxic
	HSR000226	Very toxic
Methomyl	HSR000584	Very toxic
Oxamyl	HSR000791	Very toxic
Pirimicarb	HSR000703	Toxic
	HSR000704	Toxic
	HSR007884	Toxic
	HSR008052	Harmful
Pirimiphos	HSR000187	Toxic
	HSR000192	Toxic
	HSR100602	Very toxic
Prothiofos	HSR000200	Toxic

Contact us

For more information on complying with HSNO call our compliance information line during business hours on 0800 429 7827 (0800 HAZ SUBS), or email hazardous.substances@epa.govt.nz.

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