

Common Insecticides used in Apple Production and their Evaluation Utilizing Four Eco-labeling Group Standards

| Common Name | Trade Name | Class | Healthy Grown Toxicity* | Food Alliance Midwest * | Canada Standards | Gerber | EIQ |
|----------------------|-------------------------|-----------------|-------------------------|-------------------------|------------------|--------|-------|
| Insecticides: | | | | | | | |
| avermectin B1 | Agri-Mek 0.15 EC | antibiotic | | | | | 22.7 |
| azadirachtin | Aza-Direct | botanical | | | | | ~11.4 |
| azadirachtin | Ecozin | botanical | | | | | ~11.4 |
| azadirachtin | Neemix formulations | botanical | | | | | ~11.4 |
| azinphos-methyl | Azinphos-Methyl 50 | organophosphate | | | | | ~43.1 |
| azinphos-methyl | Guthion formulations | organophosphate | 326 | | | | 43.1 |
| benzoic acid | Confirm 2F | - | | | | | |
| Benzoic acid | Intrepid 2F | - | | | | | |
| Bt | Javelin WG | - | | | | | |
| Bt var kurstaki | Dipel | | | | | | |
| carbaryl | Carbaryl formulations | carbamate | | | | | ~22.6 |
| carbaryl | Sevin formulations | carbamate | | | | | 22.6 |
| chlorpyrifos | Lorsban formulations | organophosphate | | | | | 52.8 |
| clofentezine | Apollo SC | - | | | | | 33 |
| diazinon | Diazinon formulations | organophosphate | 360 | | | | 34.2 |
| dicofol | Kelthane MF | - | | | | | 29.9 |
| dimethoate | Dimethoate formulations | organophosphate | 360 | | | | ~74 |
| endosulfan | Endosulfan 50 WSB | organochloride | | | | | ~40.5 |
| endosulfan | Thiodan formulations | organophosphate | 266 | | | | 40.5 |
| esfenvalerate | Asana XL | pyrethroid | 209 | | | | 49.6 |
| fatty acids | M-Pede | - | | | | | |
| fenbutatin-oxide | Vendex 50 WP | - | | | | | 22.9 |
| fenpropathrin | Danitol 2.4 EC | pyrethroid | | | | | ~46.2 |
| formetanate | Carzol 92 SP | formamidine | | | | | 21.5 |
| hexythiazox | Savey 50 DF | - | | | | | 38.4 |
| imidacloprid | Provado | nicotinoid | ~159 | | | | 37.2 |
| kaolin | Surround WP | clay | | | | | |
| malathion | Malathion formulations | organophosphate | ~145 | | | | ~23.2 |
| methidathion | Supracide 25 WP | organophosphate | | | | | 69.3 |
| methoxyml | Lannate formulations | carbamate | | | | | 32.8 |
| methoxychlor | Methoxychlor 2 EC | organochlorine | | | | | ~58.0 |
| indoxacarb | Avaunt 30WG | oxadiazine | | | | | 39.3 |
| oxamyl | Vydate L | carbamate | 343 | | | | 22.9 |
| permethrin | Ambush formulations | pyrethroid | 324 | | | | 56.4 |
| permethrin | Pounce formulations | pyrethroid | 324 | | | | ~56.4 |
| phosmet | Imidan 70 WP | organophosphate | 105 | | | | 23.9 |
| pyridazinone | Pyramite 60 WP | - | | | | | |
| pyriproxyfen | Esteem 35 WP | IGR | | | | | |
| spinosad | Spintor 2 SC | antibiotic | ~129 | | | | 18.7 |
| superior oil | Sunspray formulations | - | | | | | ~27.5 |
| thiamethoxam | Actara 25WG | nicotinoid | | | | | ~29.8 |

* Healthy Grown standard was developed for potatoes, apple standard in progress

*Food Alliance standard revisions in progress to be completed May 2003

~ chemical ranking cites a different trade name

DRAFT 4/4/03