

Chlorpyrifos Backgrounder

Several years ago, environmental groups petitioned EPA to revoke all tolerances for chlorpyrifos due to alleged impacts on drinking water and human health. The claims were largely based on a series of epidemiological studies that could not be substantiated or replicated, and were contradicted by actual monitoring data from sources such as the Washington State Department of Ecology.

After years of consideration, EPA denied the petition in March of 2017 and announced that the agency would consider future use of chlorpyrifos through the normal re-registration process scheduled to be completed in 2022. In the meantime, existing tolerances are maintained.

- Use of chlorpyrifos on apples is **extremely limited**. In **2000**, EPA restricted use of chlorpyrifos on apples to pre-bloom and dormant application – and to one application per season.
- Chlorpyrifos can only be applied to apple, pear, and cherry trees once each year, and it must be applied before there is fruit on the tree – which significantly reduces the chance that any residue will transfer to the fruit.
- The latest data from USDA's Pesticide Data Program (2016) which analyzes a wide variety of produce for pesticide residues found no samples of apples with detectable levels of chlorpyrifos. **(See attached excerpt from the 2016 USDA Pesticide Data Program Report)**
- Chlorpyrifos is used by tree-fruit growers as a part of their integrated pest management (IPM) plan to control San Jose Scale, Brown Marmorated Stink Bug, wooly apple aphids (a quarantine pest in certain Pacific Rim export markets), and other sucking and chewing insects that can do significant damage to fruit on the tree. IPM is a multi-faceted approach to controlling pests that focuses on prevention and only using insecticides when necessary.
- USApple has consistently supported a science-based regulatory approach to crop protection chemical registration. USApple is concerned that the loud volume of those calling for bans on the use of crop protection compounds may overrun the science-based evaluation called for by law under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), and result in unintended negative consequences.
- Apple growers have widely adopted Integrated Pest Management (IPM) and Integrated Resistance Management (IRM) programs because of their lower impact on beneficial insects, as well as to better manage pesticide usage and reduce the development of pesticide resistance. USApple strongly urges the EPA to use a science-based regulatory approach as called for by Congress in the FIFRA.

2016 USDA Pesticide Data Program Report

Chlorpyrifos - Apples

Chlorpyrifos Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Bananas	179	0			0.005 ^	0.01
Blueberries, Cultivated, Fresh	688	0			0.010 ^	0.1
Blueberries, Frozen	19	0			0.010 ^	0.1
Broccoli	712	3	0.4	0.007 - 0.014	0.005 ^	1.0
Carrots	708	0			0.006 ^	0.1
Celery	708	3	0.4	0.002 - 0.022	0.001 - 0.010	0.1
Cherries, Fresh	228	0			0.010 ^	1.0
Cherries, Frozen	282	1	0.4	0.018 ^	0.010 ^	1.0
Grape Juice	531	0			0.005 ^	0.01
Green Beans, Canned	378	0			0.001 ^	0.05
Green Beans, Fresh	757	0			0.035 ^	0.05
Green Beans, Frozen	378	1	0.3	0.017 ^	0.001 ^	0.05
Nectarines	681	33	4.8	0.005 - 0.040	0.003 ^	0.05
Peaches (X-1)	707	32	4.5	0.005 - 0.065	0.005 ^	0.05
Strawberries	176	1	0.6	0.005 ^	0.005 ^	0.2
Summer Squash	531	1	0.2	0.011 ^	0.010 - 0.075	0.1
Sweet Corn, Fresh	134	0			0.005 - 0.035	0.05
Sweet Corn, Frozen	41	0			0.005 - 0.035	0.05

Appendix B. Page 18 of 124