

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2010-5696
Application: New maximum residue limit (MRL) for a previously assessed technical grade active ingredient.
Product: Telone Technical Fumigant
Registration Number: 27898
Active ingredients (a.i.): 1,3-Dichloropropene [DSG]
PMRA Document Number: 2141771

Background

1,3-Dichloropropene is currently registered in Canada, and was re-evaluated by the Agency in 2003 (PACR2004-34, REV2008-07). The registrant notified the PMRA of their intent to voluntarily withdraw registrations for Telone Technical Fumigant (Registration Number 27898), and the associated end-use products (Telone C17 Liquid Soil Fungicide and Nematicide, Registration Number 16324 and Telone II Liquid Soil Fumigant, Registration Number 15893). The registration for the TGAI and end-use products will expire on December 31, 2011.

Purpose of Application

The purpose of this application is to establish an import maximum residue limit (MRL) for 1,3-dichloropropene in/on grapes and to harmonize the MRL with the currently established US tolerance.

Chemistry, Environment and Value Assessment

Chemistry, environment and value assessments were not required for this application.

Health Assessments

The toxicology profile for the active ingredient, 1,3-dichloropropene, is not affected by the establishment of an import maximum residue limit in/on grapes.

New residue data, to support the establishment of an import MRL in/on grapes, was submitted and reviewed. The combined residues of the *cis* and *trans* isomers of 1,3-dichloropropene, 3-chloroallyl alcohol and 3-chloroacrylic acid in/on grapes following drip application according to the U.S. GAP are to be covered by the proposed Canadian import MRL of 0.018 ppm. The dietary exposure to grapes treated with 1,3-dichloropropene and imported from the U.S. will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Conclusion

Following the review of all available data, a maximum residue limit for 1,3-dichloropropene on imported grapes is recommended to be set at 0.018 ppm.

References

PMRA Document Number	Reference
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2029466	1993, Residue in Tomatoes following a pre-plant application of uniformly c-labeled cis- and trans- 1,3-D, DACO: 6.3
1984102	2000, Summary - MOR in Grapes Following Multiple Post-Plant Applications of cis- and trans- 1,3-Dichloropropene, DACO: 7.1
1984103	2000, Determination of Residues 1,3-Dichloropropene in Grapes by Capillary Gas Chromatography with Mass Selective Detection, DACO: 7.2.1
1984105	2000, Method Validation Report for the Determination of 3-Chloroallyl Alcohol and 3-Chloroacrylic Acid in Grapes by Capillary Gas Chromatography with Mass Spectrometric Detection, DACO: 7.2.1,7.2.2
1984106	2000, Method Validation Report for the Determination of Residues 1,3-Dichloropropene in Grapes by Capillary Gas Chromatography with Mass Selective Detection, DACO: 7.2.2
1984108	2000, Independent Laboratory Validation of " Determination of Residues of 1,3-Dichloropropene in Grapes by Capillary Gas Chromatography with Mass Selective Detection" According to PR Notice 96-1 and OPPTS 1860:1340 Guidelines, DACO: 7.2.3
1984109	2000, SRT - Independent Laboratory Validation of " Determination of Residues of 1,3-Dichloropropene in Grapes by Capillary Gas Chromatography with Mass Selective Detection" According to PR Notice 96-1 and OPPTS 1860:1340 Guidelines, DACO: 7.2.3
1984110	2009, Independent Laboratory Validation of a Method for the Determination of 3-Chloroallyl Alcohol and 3-Chloroacrylic Acid in Grapes, DACO: 7.2.3
2029467	2009, PAM I Multiresidue Protocol Testing for Cis- and Trans- 1,3-D in Grapes, DACO: 7.2.4
2029468	2009, PAM I Multiresidue Protocol for the Cis- and Trans-3-Chloroacrylic Acid and Cis- and Trans-3-Chloroallyl Alcohol Metabolites of 1,3-D in Grapes, DACO: 7.2.4
1984111	2009, Rationale - Telone Technical, DACO: 7.2.4,7.2.5
1984115	2002, Frozen Storage Stability of 1,3-Dichloropropene, 3-Chloroallyl Alcohol, and 3-Chloroacrylic Acid in Grapes, DACO: 7.3
1984116	2010, Frozen Storage Stability of 1,3-Dichloropropene, 3-Chloroallyl Alcohol and 3-Chloroacrylic Acid in Grapes, DACO: 7.3
1984117	2000, Magnitude of Residue in Grapes Following Multiple Post-Plant Applications of cis- and trans-1,2-Dichloropropene, DACO: 7.4.1,7.4.2

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