



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2008-1296
Application: New technical grade active.
Product: CM/OFM TT Pheromone Technical
Registration Number: 29353
Active ingredients (a.i.): E,E-8, 10-Dodecadien-1-ol
1-Dodecanol
1-Tetradecanol
Z-8-Dodecen-1-yl Acetate
E-8 Dodecen-1-yl Acetate
Z-8-Dodecen-1-ol

PMRA Document Number: 1771455

Purpose of Application

The purpose of this application was to register a technical grade active ingredient, CM/OFM TT Pheromone Technical, which is composed of a mix of insect sex pheromones: E,E-8, 10-Dodecadien-1-ol (ZAH), 1-Dodecanol (ZAG), 1-Tetradecanol (ZAF), Z-8-Dodecen-1-yl Acetate (ZED), E-8 Dodecen-1-yl Acetate (EED), and Z-8-Dodecen-1-ol (ZDD). The insect sex pheromones in CM/OFM TT Pheromone Technical are part of the group of lepidopteran pheromones defined as straight chained lepidopteran pheromone (SCLPs). This application is for Use Site Category 14 (Terrestrial Food Crops) and the individual insect sex pheromones that make up the technical are already registered for use in Canada under Use Site Category 14.

Chemistry Assessment

Common Name: CM/OFM TT Pheromone

Chemical Name: Mixture of six active ingredients: (E,E)-8,10-Dodecadien-1-ol, 1-Dodecanol, 1-Tetradecanol, Z-8-Dodecen-1-yl Acetate, E-8-Dodecen-1-yl Acetate and Z-8-Dodecen-1-ol

CM/OFM TT Pheromone Technical has the following properties:

Property	Result
Colour and physical state	Colourless to light yellow liquid
Nominal concentrations	(<i>E,E</i>)-8,10-Dodecadien-1-ol.....64.78% 1-Dodecanol.....10.24% 1-Tetradecanol.....2.07% (<i>Z</i>)-8-Dodecen-1-yl acetate.....16.43% (<i>E</i>)-8-Dodecen-1-yl acetate.....1.20% (<i>Z</i>)-8-Dodecen-1-ol.....0.23% As determined by GC
Odour	Mild and fatty fruity
Specific gravity	0.87 at 25 °C
Vapour pressure	8.16×10^{-3} mmHg at 20°C
pH	6.0
Solubility in water	Insoluble in water
<i>n</i> -Octanol/water partition coefficient	More than 1000

The chemistry requirements for CM/OFM TT Pheromone Technical have been completed.

Health Assessments

Waivers were granted for the acute oral, dermal, and inhalation toxicities, primary eye irritation, primary skin irritation, and dermal sensitization for this group of SCLPs, which have been well characterized in the past. It is expected that all acute toxicities will be low, regardless of the route of administration, that the primary eye irritation will be minimal, the primary skin irritation will be slight to moderate, and that there will not be any dermal sensitization associated with the active ingredients. Other waived data requirements included the short-term toxicity, genotoxicity, and prenatal developmental toxicity since the SCLPs have been well characterized and the likelihood of exposure negligible.

Based on the low toxicity of SCLPs in general, a food residue exposure assessment was not performed and a Maximum Residue Limit (MRL) not proposed.

Environmental Assessment

CM/OFM TT Pheromone Technical contains active ingredients which are expected to pose a minimal risk to the environment. The active ingredients in CM/OFM TT Pheromone Technical are part of the group of lepidopteran pheromones defined as SCLPs. SCLP is a well defined chemical group and available information has demonstrated that SCLPs pose minimal risk to the environment at volumes similar to naturally occurring concentrations (refer to PRO2002-02). In addition, a previous environmental review of some of the active ingredients in CM/OFM TT Pheromone Technical has indicated minimal risk to mammals, birds, and aquatic organisms (refer to the Decision Document for Isomate-C Plus Codling Moth Pheromone, E94-01).

Value Assessment

An assessment of value was not required for this application.

Conclusion

The PMRA has completed an assessment of available information for CM/OFM TT Pheromone Technical and has found the information sufficient to a full registration.

References

PMRA Document Number	Reference
1579275	2008, MSDS-Product, DACO: 0.9
1579278	2008, Part 2, Product Chemistry for Registration of a TGAI, DACO: 2.0, 2.1, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.12.2, 2.13.1, 2.13.2, 2.13.3, 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.14, 2.14.2, 2.14.3, 2.14.5, 2.14.6, 2.14.7, 2.14.8, 2.14.9, 2.2,2.3.1, 2.4,2.5, 2.6, 2.7, 2.8
1579279	2008, CBI Reference to Parent Document, Part 2, Product Chemistry for Registration of a TGAI, DACO: 2.0, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.12.2, 2.13.1, 2.13.2, 2.13.3 CBI
1704022	2009, MSDS - Material Safety Data Sheets - Components, DACO: 0.9.1
1704023	2009, Manufacturers Name And Office Address And Manufacturing Plants Name And Address, DACO: 2.2
1579329	2008, Part 4, Acute Toxicology Studies of a TGAI, DACO: 4.1,4.2.1,4.2.2,4.2.3,4.2.4,4.2.5,4.2.6,4.5.4,4.5.5,4.5.6
1704022	2009, MSDS - MATERIAL SAFETY DATA SHEETS - COMPONENTS, DACO: 0.9.1
1579275	2008, MSDS-Product, DACO: 0.9
1579277	2008, Comprehensive Data Summary of a TGAI, DACO: 12.7

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