

Evaluation Report for Category B Subcategory 1.1, 1.3 Application

Application Number: 2013-2329
Application: B.1.1 New / Changes TGAI or ISP Prod Chemistry-New
Source (site) same registrant
B.1.3 New / Changes TGAI or ISP Prod Chemistry-
Specifications
Product: H02 Moss Killer TGAI
Registration Number: 31341
Active ingredients (a.i.): Potassium salts of fatty acid (SOC)
PMRA Document Number : 2330578

Purpose of Application

The purpose of this application is to register a new source of active ingredient for potassium salts of fatty acids, H02 Moss Killer TGAI, to manufacture three new end-use products for use as an herbicide and algaecide.

Chemistry Assessment

Common Name: Potassium salts of fatty acids
CAS Chemical Name: Fatty acids, C8-18 and C18-unsatd., potassium salts

H02 Moss Killer TGAI has the following properties:

Property	Result
Colour and physical state	Clear faint yellow
Nominal concentration	22.11%
Odour	Characteristic fatty acid odour
Density	1.01 - 1.07 g/mL (at 20°C)
pH	10.00 ± 0.25
Solubility in water	Fully soluble in water
n-octanol/water partition coefficient	N/A

The chemistry requirements for H02 Moss Killer TGAI have been completed.

Health Assessments

The proposed registration of a new source of active ingredient for potassium salts of fatty acids, H02 Moss Killer TGAI, to manufacture 3 new end-use products for use as an herbicide and algaecide is not considered chemically equivalent to the registered source by the same registrant. The formulation of H02 Moss Killer TGAI is not expected to present a more hazardous toxicology profile than that of similar currently registered products.

Soap salts have been re-evaluated by the PMRA (PACR2004-04) under Re-evaluation Program 1, which relies on the USEPA Reregistration Eligibility Decision (RED) documents, to assess Canadian pest control products. Potassium salts of fatty acids are of low toxicity by oral and dermal routes. They are mild to moderately irritating to the skin when exposed for longer periods of time. PMRA recommends on the secondary display panel, under Precautions, to add “Causes eye and/or skin irritation. DO NOT get in eyes, on skin or on clothing.”

Environmental Assessment

The uses of the proposed formulations of H02 Moss Killer products containing potassium salts of fatty acids are not expected to increase the environmental exposure relative to other approved fatty acids-based soap salts (e.g., Registration Numbers 27882 and 27883). Therefore, negligible risk is expected. Environmental concerns have been mitigated through adequate statements on the product label.

Value Assessment

A value assessment was not required for this application.

Conclusion

The Pest Management Regulatory Agency (PMRA) has carried out an evaluation of available information and has concluded that the registration of a new source of active ingredient for potassium salts of fatty acids, H02 Moss Killer TGAI, to manufacture three new end-use products for use as an herbicide and algaecide can be supported.

References

Chemistry

- | | |
|---------|--|
| 2297676 | 2013, Binder #1, DACO: 2.0, 2.1, 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12, 2.12.1, 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4, 2.14, 2.14.1, 2.14.10, .14.11, 2.14.12, 2.14.13, 2.14.14, 2.14.2, 2.14.3, 2.14.4, 2.14.5, 2.14.6, 2.14.7, 2.14.8, 2.14.9, 2.15, 2.16, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.6,2. |
| 2297677 | 2013, Ambient (2 year) Storage Stability of H02, DACO: 2.14.14 CBI |
| 2297678 | 2000, Product Chemistry Review, DACO: 2.16 CBI |

- 2362325 2013, Binder #1 - Revised, DACO: 2.0, 2.1, 2.10, 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12, 2.12.1, 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4, 2.14, 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.13, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.4, 2.14.5, 2.14.6, 2.14.7, 2.14.8, 2.14.9, 2.15, 2.16, 2.2,2
- 2362327 2013, H02 ACCELERATED STORAGE, DACO: 2.14.13 CBI
- 2362328 2013, H02 - CORROSION, DACO: 2.14.13 CBI
- 2362329 2013, H02 STORAGE, DACO: 2.14.14 CBI

Health

- 2297679 2000, Technical Review Branch Similarity Clinic Determination, DACO 4.8
- 1155558 1988, Primary Skin Irritation Study of Liquid SAP 2028 (20.2% concentrate), DACO 4.6.5

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