Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2021-0733
Application: Changes to TGAI Product Chemistry – New Source (site) Same Registrant
Product: TCMTB Liquid Microbicide Concentrate
Registration Number: 18448
Active ingredient (a.i.): 2-(thiocyanomethylthio)benzothiazole
PMRA Document Number : 3344024

Purpose of Application

The purpose of this submission is to add a new manufacturing site to TCMTB Liquid Microbicide Concentrate.

Chemistry Assessment

Common Name: 2-(thiocyanomethylthio)benzothiazole (no ISO common name)
IUPAC* Chemical Name: (1,3-benzothiazol-2-ylthio)methyl thiocyanate
or
2-[(thiocyanatomethyl)thio]-1,3-benzothiazole
CAS† Chemical Name: (2-benzothiazolylthio)methyl thiocyanate

* International Union of Pure and Applied Chemistry
† Chemical Abstracts Service

TCMTB Liquid Microbicide Concentrate has the following properties:

Property	Result
Colour and physical state	Dark-brown to orange oily liquid
Nominal concentration	80%
Odour	Pungent
Density	0.79 – 0.83 g/cm^3
Vapour pressure	0.31 mPa
pH	6 (1% in water)
Solubility in water	45 mg/L
n-Octanol/water partition coefficient	log K_{ow} = 3.23

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The required chemistry data for TCMTB Liquid Microbicide Concentrate have been provided, reviewed, and found to be acceptable.

Health Assessments

The health risk profile of the technical active ingredient is not expected to be significantly altered by the addition of a new manufacturing site.

Exposure assessments were not required for this application.

Environmental and Value Assessments

Environmental and value assessments were not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support addition of the manufacturing site to TCMTB Liquid Microbicide Concentrate.

References

PMRA Document Number	References
3203435	2021, Chemical Reaction for TCMTB-B and Suppliers, DACO: 2.11.1,2.11.2,2.11.3 CBI
3203449	2021, Study Report Formation of Impurities TCMTB, DACO: 2.11.4 CBI
3203432	2019, Batch Analysis of Technical Grade TCMTB, DACO: 2.13.3 CBI
3203434	2019, Validation of the Analytical Method for Determination of TCMTB in Technical Grade TCMTB, DACO: 2.13.2 CBI
3203433	2019, Validation of the Analytical Method for Determination of Impurities in Technical Grade TCMTB, DACO: 2.13.1 CBI
3331636	DACO 2.2 Manufacturing Plants Name and Address, DACO: 2.2 CBI
3190605	2016, Description and validation of the analytical methods for determination of impurities in technical grade rimsulfuron (DPX-E9636)- confidential attachment, DACO: 2.13.1 CBI
3190608	2013, Validation of the Analytical Method for the Determination of Rimsulfuron (DPX-E9636) in Technical Grade Rimsulfuron - Non-Confidential attachment, DACO: 2.13.1 CBI