

## Evaluation Report for Category B, Subcategory 7.0 Application

**Application Number:** 2023-0698  
**Application:** Reinstatement of Registered Product  
**Product:** Hilltech Canada Oleoresin of Red Pepper Technical  
**Registration Number:** 29550  
**Active ingredients (a.i.):** Capsaicin and related capsaicinoids  
**PMRA Document Number :** 3636806

### Purpose of Application

The purpose of this application was to reinstate the registration of Hilltech Canada Oleoresin of Red Pepper Technical.

### Chemistry Assessment

**Common Name:** Capsaicin  
**IUPAC\* Chemical Name:** *N*-(4-hydroxy-3-methoxybenzyl)-8-methylnon-6-enamide  
**CAS† Chemical Names:** *N*-[(4-hydroxy-3-methoxyphenyl)methyl]-8-methyl-6-nonamide  
 6-Nonenamide, *N*-[(4-hydroxy-3-methoxyphenyl)methyl]-8-methyl-,  
 (6*E*)-

**Common Name:** Dihydrocapsaicin  
**IUPAC\* Chemical Name:** *N*-[(4-hydroxy-3-methoxyphenyl)methyl]-8-methylnonanamide  
**CAS† Chemical Name:** N/A

**Common Name:** Nordihydrocapsaicin  
**IUPAC\* Chemical Name:** *N*-[(4-hydroxy-3-methoxyphenyl)methyl]-7-methyloctanamide  
**CAS† Chemical Name:** N/A

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Hilltech Canada Oleoresin of Red Pepper Technical has the following properties:

Property	Result
Colour and physical state	Clear red liquid
Nominal concentration	Capsaicin: 4.20%, Related capsaicinoids: 2.70%
Odour	Distinctive acrid aroma characteristic of capsicum odour
Specific gravity	1.02-1.05
Vapour pressure	< 1333.224 Pa
pH	N/A (The product is not soluble in water)
Solubility in water	Insoluble to slightly soluble in water
n-Octanol/water partition coefficient	N/A

The required chemistry data for Hilltech Canada Oleoresin of Red Pepper Technical have been provided, reviewed, and found to be acceptable.

### **Health Assessments**

Capsaicin and related capsaicinoids are known to be of low acute oral toxicity. They are irritating to the skin, eyes and upper respiratory tract on contact and are potential sensitizers.

There are no food or drinking water exposure concerns for capsaicin and related capsaicinoids when the formulated products are used according to label directions.

An occupational exposure assessment was not required for this application.

### **Environmental Assessment**

The risk is acceptable when Hilltech Canada Oleoresin of Red Pepper Technical is used in accordance with the label, which includes statements to mitigate risks to the environment.

### **Value Assessment**

A value assessment was not required for this application.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the reinstatement of the registration for Hilltech Canada Oleoresin of Red Pepper Technical.

### **References**

#### **PMRA**

#### **Document**

<b>Number</b>	<b>Reference</b>
3438689	2022, 4010000076 Flow Chart Oleoresin Capsicum, DACO: 2.11,2.11.1 CBI
3438690	2022, 2.13.3-1 Food Grade Certificate, DACO: 2.13,2.13.1 CBI
3438691	2022, 2.13.3-2 Specification and Product Information Oleoresin Capsicum, DACO: 2.13,2.13.1 CBI
3438692	2020, 2.13.3-3 SDS Oleoresin Capsicum, DACO: 2.13,2.13.1 CBI
3438693	2020, 2.13.3-4 COA 421I214741, DACO: 2.13,2.13.1 CBI
3438694	2020, 2.13.3-5 COA 421H223372, DACO: 2.13,2.13.1 CBI
3438695	2020, 2.13.3-6 COA 421H211603, DACO: 2.13,2.13.1 CBI
3438696	2020, 2.13.3-7 COA 421E214522, DACO: 2.13,2.13.1 CBI
3438697	2020, 2.13.3-8 COA 421D223817, DACO: 2.13,2.13.1 CBI
3438698	2023, 2.13.3-10 GC Raw Data, DACO: 2.13,2.13.1 CBI
3438699	2023, 2.13.3-11 GC Raw Data, DACO: 2.13,2.13.1 CBI
3438700	2023, 2.13.3-12 GC Raw Data, DACO: 2.13,2.13.1 CBI
3438701	2023, 2.13.3-13 GC Raw Data, DACO: 2.13,2.13.1 CBI

3438702 2023, 2.13.3-14 GC Raw Data, DACO: 2.13,2.13.1 CBI  
3438703 2022, 2.13.4 [CBI Removed] Oleoresin Capsicum, DACO: 2.13.4 CBI  
3455802 2023, Flow Chart Oleoresin of Red Pepper 4010000076, DACO:  
2.11,2.11.1,2.11.3 CBI  
3455803 2023, Request to Synthite Industries for Information, DACO:  
2.11,2.11.1,2.11.2 CBI  
3455804 2023, Spec-E471, DACO: 2.11,2.11.1,2.11.2 CBI  
3455805 2023, Black Pepper Raw Material Specification, DACO: 2.11,2.11.1,2.11.2  
CBI  
3455806 2023, Chili Raw Material Specification, DACO: 2.11,2.11.1,2.11.2 CBI  
3503124 2023, 2023-0698 Waiver Request and Approval DAS, DACO:  
2.0,2.13.4,2.16 CBI  
3503125 2023, 2023-0698 Waiver Request and Approval Ergot, DACO:  
2.0,2.13.4,2.16 CBI  
3503126 2023, 2023-0698 [CBI Removed], DACO: 2.0,2.13.4,2.16 CBI  
3527646 2023, 2.13.4 Completed Attestation Form for [CBI Removed] for  
Sub.No.2023-0698, DACO: 2.13.4 CBI  
3564280 2024, Certificate of Analysis - [CBI Removed] TGAI, DACO: 2.13.4 CBI  
3564281 2024, Certificate of Analysis - [CBI Removed] TGAI, DACO: 2.13.4 CBI  
3564282 2024, Certificate of Analysis - [CBI Removed] TGAI, DACO: 2.13.4 CBI  
3564283 2024, Certificate of Analysis - [CBI Removed] TGAI, DACO: 2.13.4 CBI  
3564284 2024, Certificate of Analysis - [CBI Removed] TGAI, DACO: 2.13.4 CBI

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