

MATERIAL SAFETY DATA SHEET



Date of issue: July 8, 2021
Version: 01

1- IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1. : Identification of the substance or preparation :

FUMAGILLINE DCH / FUMAGILIN-B DIN 02231180

1.2. : Company / undertaking identification

Vita Bee Health
Canada Ltd.
150 Caroline Street
Suite 402 Waterloo
ON N2L 0A5
www.vita-europe.com

1.3. : Emergency phone number :

Phone number of the official advisory body: Refer to local Poison Centre

2- HAZARD IDENTIFICATION

2.1 Hazards to human health:

The product is classified as not dangerous following

- Directive 1999/45/EC
- Health Canada Hazardous Product Act February 11, 2015 (added by Medivet)

Eye contact: may cause irritation

Skin contact: may cause irritation

Ingestion:

Inhalation: None.

See also section 4.

2.2.: Hazards to the environment

The product is classified as not dangerous

Do not release in the environment.

See also sections 6.

3- COMPOSITION / INFORMATION ON INGREDIENTS

Dangerous substances according to EEC norms about dangerous substances and preparations (67/548/EEC – 1999/45/EC) and their classification:

2,4,6,8-Decatetredoic-mono[[4-(1,2-epoxi-1,5-dimethyl-4-hexenyl)-5-methoxy-1-oxapiro-[2,5]]oct-6-yl-ester-dicyclohexylammonium salt.

Cas No: 41567-78-6

Molecular Formula: $C_{26}H_{34}O_7-C_{12}H_{23}N$

Molecular weight: 639,88

MATERIAL SAFETY DATA SHEET



4- FIRST AID MEASURES

First aid in case of:

- 4.1. **Ingestion:** If the product is swallowed, seek medical advice showing the product's label
- 4.2. **Inhalation:** Breathe deeply in fresh air
- 4.3. **Skin contact:** Wash immediately with plenty of water and soap
- 4.4. **Eye contact:** Wash immediately with plenty of water

5- FIRE-FIGHTING MEASURES

Extinguishing media:

- 5.1. **Suitable:** Powder, foam, water, CO₂
- 5.2. **Unsuitable:** None

6- ACCIDENTAL RELEASE MEASURES

- 6.1. **Personal precaution:** Wear gloves if the product has to be gathered after dispersion on soil.
- 6.2. **Environmental precaution:** Do not throw in the environment. If water has been used to clean up avoid spillage in watercourses, sewerage system...
- 6.3. **Clean up methods:** Avoid to move dust. Sweep and put in a bag for destruction. Open windows and wash the contaminated area with water after collecting the product.

7- HANDLING AND STORAGE

- 7.1. **Handling:** Keep out of reach of children. Do not contaminate food or drinkables or their containers. After usage, or in case of contamination, wash hands with water and soap.
- 7.2. **Storage:** Keep product in its packaging at room temperature and in dry places. Must be protected from humidity and light.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. **Occupational exposure controls:** Components which have specific occupational limit values and/or biological limit values: NONE
- 8.2. **Respiratory protection:** wear a mask
- 8.3. **Hand protection:** Gloves
- 8.4. **Eye protection:** Glasses
- 8.5. **Skin protection:** Normal work overalls
- 8.6. **Environment exposure controls:** See section 13

9- PHYSICAL AND CHEMICAL PROPERTIES

- 9.1. **Appearance:** thin yellow powder
- 9.2. **Odour:**
- 9.3. **pH:** aqueous solution at 1% 5,5 - 8,0
- 9.4. **Boiling point/boiling range:** 148 - 152°C
- 9.5. **Flammability:** Not available
- 9.6. **Water solubility:** none in water
- 9.7. **Easily** soluble in methanol and ethanol.
- 9.8. **Easily** in chloroforme.

MATERIAL SAFETY DATA SHEET



10- STABILITY AND REACTIVITY

10.1. Stability: stable

10.2. Materials to avoid: Strong oxidants;

10.3. Conditions to avoid: Must be protected from humidity and light and must be kept at a temperature < 5°C

11- TOXICOLOGICAL INFORMATION

11.1. Oral Toxicity: Male rat LD₅₀ 2760 – 3500 mg/kg

11.2. Chronic toxicity : slightly toxic for the rat

11.3. Skin contact and eyes: The product could present skin sensitizations potential and eyes and skin irritation

12- ECOLOGICAL INFORMATION

Do not release in the environment

13- DISPOSAL CONSIDERATIONS

13.1. Product: Dispose of in accordance with Local Authority requirements

14- TRANSPORT INFORMATION

14.1. Road and rail transport: RID / ADR no classification

14.2. Sea freight: IMDG / IMO no classification

14.3. Air freight: ICAO / IATA no classification

15- REGULATORY INFORMATION

15.1. Classification according to dangerous preparation norms: No classification

15.2. R sentences:

15.3. Risk Symbol:

15.4. S sentences / Caution advises:

Keep out of reach of children. Do not swallow. Do not contaminate food or drinkables or their containers. After use, or in case of contamination, wash hands with water and soap.

16- OTHER INFORMATION

This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current technical knowledge of the product concerned, and is given in good faith. The attention of recipients is drawn to (amongst other things) the element of risk consequent to use of the product for a purpose other than that for which it was intended.

In no way does this document remove the need of the recipient of the product to fully understand and apply statutory requirements. It is the recipient's sole responsibility to take due precautions relative to the use made of the product.

All information contained herein is included only to assist the recipient in fulfilling his or her statutory duty connected with the use of hazardous materials.

MATERIAL SAFETY DATA SHEET



The list of information must not be considered as exhaustive, and does not exonerate the recipient from taking other precautions described in documents other than those mentioned, concerning the storage and use of the product, for which he or she remains the sole person responsible

Referring norms:

- Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances and subsequent updatings.
- Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.
- Commission Directive 91/155/EEC of 5 March 1991 defining and laying down the detailed arrangements for the system of specific information relating to dangerous preparations in implementation of Article 10 of Directive 88/379/EEC.
- Commission Directive 2001/58/EC of 27 July 2001 amending for the second time Directive 91/155/EEC defining and laying down the detailed arrangements for the system of specific information relating to dangerous preparations in implementation of Article 14 of European Parliament and Council Directive 1999/45/EC and relating to dangerous substances in implementation of Article 27 of Council Directive 67/548/EEC (safety data sheets) (Text with EEA relevance).
- Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.
- Council Directive 91/689/EEC of 12 December 1991 on hazardous waste.
- European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.
- Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work.
- Council Directive 90/679/EEC of 26 November 1990 on the protection of workers from risks related to exposure to biological agents at work (seventh individual Directive within the meaning of Article 16 (1) of Directive 89/391/EEC).
- Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC).
- Council Directive 94/55/EC of 21 November 1991 on the approximation of the laws of the Member States which regard to the transport of dangerous goods by road, as amended, and, for the application of the restructured Annexes A and B, Commission directive 2003/28/EC of 07 April 2003.
- Safety Data Sheet updated in accordance with the provisions of Annex II of REACH (Regulation EC No 453/2010)

Transcription from the Material Safety Data Sheet supplied by Medivet Pharmaceuticals Ltd. 4, 55 – 9 Avenue SE, High River, AB, T1V 1E6, Canada, Date of Actualisation: 07/07/2015; Version 02 (except where noted).