LG TWIN TOWER 20 YOUDD-DONG YOUNGDUNGPO-GU SEOUL KOREA, 150-721

Material Safety Data Sheet



Emergency Phone: +82 2 3773 6936

Effective Date: N/A

LG Life Sciences Ltd. Ulsan, 689-896, Korea

Fenvastar Plus

1. Identification of the substance and company

Product Name: Esfenvalerate 8.4% EC

Company Identification

LG Life Sciences Ltd.(Head Quarter)

Twin Tower, 20, Yoido-dong, Youngdungpo-gu, Seoul, Korea.

TEL: +82-42-3773-6936

2. Composition / Information on Ingredients

Esfenvalerate: Cyano-3-phenoxybenzyl (S)-2-(4-chlorophenyl)-3-methylbutyrateCas

CAS RN : 66230-04-4

Inert ingredients: Solvent and Surfactants

3. Hazard Identification

Potential Health Effect:

Eye: May cause moderate irritation

Skin: May cause significant skin irritation.

Ingestion: No hazards anticipated from swallowing small amounts incidental to normal

handling operation

Inhalation: Vapors are unlikely due to physical properties. Single exposure to dust is not likely

to

be hazardous.



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4. First-Aid Measures

Inhalation: Move person to fresh air.

Obtain medical attention.

Skin Contact: Brush off contaminated clothing.

Rinse skin immediately with with plenty of water for 15–20 minutes.

If symptoms develop, obtain medical attention.

Eye Contact : Hold eye open and rinse with eyewash solution or clean water for 15~20

minutes. Obtain medical attention.

Ingestion : Do not induce vomiting unless told to do so by the poison control center

or doctor.

5. Fire-Fighting Measures

Flash Point : >230F (Contains petroleum distillates)

Fire and Explosion Hazards: May emit toxic fumes when heated to decomposition.

Special fire fighting procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skins and eyes.



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6. Accidental Release Measures

Action To Take For Spills: In case of leak or spill, contain material and dispose as waste. Don't contaminate any body of water. Sweep up material, place in a bottle, and hold for waste disposal.

7. Handling and Storage

Precautions To Be Taken In Handling And Storage:

Keep out of reach of children. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin and clothing. Users should wash hands before eating and drinking. Do not contaminate water, food, or feed by storage. Store in original container only.

8. Exposure Controls / Personal Protection

Wear chemical safety goggles.
Wear compatible chemical-resistant gloves.
Take safety shower and eye bath after handling Mechanical exhaust required.
Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.
Store in a cool place.

9. Physical and Chemical Properties

Boiling Point: Not determined

Appearance: Liquid (transparent, light amber)

Odor: Aromatic odor

Vapor Pressure(25℃): Not determined

Specific Gravity: 0.90~0.92



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10. Stability and Reactivity

Stability: Stable at the normal storage conditions.

Incompatibility: Strong acidic and alkali materials should be avoided.

Hazardous Decomposition Materials: Not known to occur.

11. Toxicological Information

These toxicological data are for the active ingredient, **Esfenvalerate**.

Rat acute oral toxicity (LD_{50}): 458 mg/kg

Skin Sensitization: Not a skin sensitizer

Ames test:

Chromosome aberration test:

Negative

Negative

12. Ecological Information

These ecological data are for the active ingredient, **Esfenvalerate**.

Fish acute toxicity (Rainbow trout) $LC_{50} : 0.26 \text{ug/I (96hr)}$ $LC_{50} : 0.36 \text{ ug/I (48hr)}$ Acute oral (Mallard duck) $LD_{50} : 9932 \text{ mg/kg}$

13. Disposal Consideration

Disposal should be in accordance with local or national legislation.



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14. Transport Information

This document was generated only for the sample for field trials. For the transport information, if required, please consult LGLS (telephone: +82-2-3773-6936)

Shipping Information

DOT

Proper shipping name : Pyrethroid pesticide, Liquid, Toxic, N.O.S.

(Esfenvalerate)

Hazard class : 6.1

I.D. No. (UN/NA) : UN 3352

Marine pollutant : (Water or Bulk)

15. Regulatory information

This material is only for the evaluation. Thus, regulatory information is not available at present.

16. Other Information

MSDS first issued: Sep. 27. 2007

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication.

Nothing herein is to be constructed as a warranty, express or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information or the suitability of any products for their own particular purpose.