Excel Crop Care Limited, India



Material Safety Data Sheet Fluroxypyr 1-Methylheptyl Ester (FMPE)

1. Chemical Product and Company Identification

Product Name : Fluroxypyr 1-MethylhHeptyl Ester Technical (FMPE)

Formula : $C_{15}H_{21}CI_2FN_2O_3$

Molecuar Weight : 367.2

: 1- methylheptyl [(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl) oxy]

Chemical Name acetate

Manufacturer : Excel Crop Care Limited

184 / 87, S. V. Road, Jogeshwari (West), a) Mumbai, (India). Pin code: 400 102

Contact no: +912266464200

Emergency Contact Details : +91 22 42522201

: +91 22 42522202 : +91 278 2212320

2. Composition/Information on Ingredients

Component CAS No. % W/W content

Fluroxypyr 1-methylheptyl ester 81406-37-3 98 minimum

3. Hazard Identification

Emergency Overview

Appearance and odour: Off white solid powder.

Warning Statements : Keep out of reach of children

Potential Health Effects

Likely Routs of Exposure: Skin contact, Inhalation and Ingestion

Eye Contact: May cause mild eye irritation and redness to eyes

Skin contact: Not a skin irritant, unlikely to be absorbed through skin.

Ingestion :Could be harmful if swallowed

Version: ECCL/MSDS/FMPE98TECH/1

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Inhalation: Could be harmful if inhaled.

Environmental Hazards: Non-toxic to aquatic organisms. .

4. First aid measures and Antidote

Emergency and First Aid Procedure –

If in Eyes Immediately flush with plenty of clean water for 15-20 minutes.

Remove contact lenses if present after 5 minutes of washing. Get

medical attention

If on Skin : Wash with plenty of clean water and soap. Get medical attention.

If Inhaled : If experiencing any distress/discomfort, immediately remove the

affected person to fresh air and obtain medical advice.

If Swallowed Never give any thigh through mouth to unconscious person. Get

medical attention

Note to Physician Treat symptomatically

Antidote No specific antidote known

5. Fire Fighting Measures

Hazardous product of

Combustion

May emit toxic fumes of decomposition products during combustion

Extinguishing Media

Foam, Dry chemical powder, CO₂ type extinguisher or flood with

water.

Unusual Fire and Explosion Hazards The product does not pose any unusual fire hazard. It is advisable for

firemen to avoid direct contact.

Fire Fighting Equipment: Evacuate area and fight fire from a safe distance. Approach from

upwind to avoid hazardous vapours and decomposition products. Use self-contained breathing apparatus. Used equipments should be

thoroughly decontaminated.





6. Accidental Release Measure

Personal Protection

: Observe all protection and safety precautions. Depending on the magnitude of the spill, use of eye protection, gloves and boots when cleaning up spills are recommended. For PPE see Section 8.

Steps to be taken in case of a spill

It is recommended to have a predetermined plan / SOP for the handling of spills.

Stop the source of the spill immediately, if safe to do so. Contain the spill to prevent any further contamination of soil or water.

Keep all bystanders away. Wear full-length clothing and PVC gloves. Shovel and collect the spilled material / contaminated absorbent and place in suitable containers. Thoroughly scrub the floor or other impervious surfaces with a strong industrial detergent and rinse with water.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal through incineration.

7. Handling and Storage

Precautions in Handling

In an industrial environment, such as while making formulation, filling or packing, it is recommended to avoid physical contact with the product and to have adequate ventilation.

Avoid spillage into the eyes, or contact with bare skin or clothing. Avoid inhaling dust. Wash hands, feet, face thoroughly after handling. Remove contaminated clothing immediately

Precautions in Storage

The product is stable under normal conditions of warehouse storage. Keep container lids tightly closed

Store in a cool, dry, well- ventilated place away from foodstuffs, animal feed under lock & key.

Specific Use

The product is meant / approved to be used as herbicide.

DoU: Sept 23, 2014





8. Exposure Controls/Personal Protection

Exposure Limit Values

: Exposure limits have not been established for FMPE. However, exposure limit values defined by local regulations may exist and must be checked / observed.

Personal Protection

: When used in a closed / automated system, personal protection equipment may not be required. When closed system is not possible in case of maintenance, repair, sampling etc, systems must be made nonhazardous before opening

Respiratory Protection

: The product is likely to pose inhalation exposure concern during normal handling, use suitable dust mask. In the event of an accidental discharge of the material during manufacture or handling which produces a dust, workers should put on respiratory protection equipment with a universal filter

Protective Gloves: Wear appropriate protective gloves

Eye Protection: Wear goggles, face shield or safety glasses. It is recommended to have an

eye wash fountain available in the work area.

Skin Protection: Wear appropriate protective clothing to prevent direct skin contact

9. Physical and Chemical Properties

Physical State : Solid

Appearance : Off white powder

Odour : No characteristic odour.

Density : $1.32-\pm0.02$ at 20 °C. **pH value** : 6.38 ± 0.02 at 20 °C

Viscosity : Not applicable

Vapour Pressure : 3.87 x 10⁻⁵ Pa at 25^oC

Vapour Density : Not applicable

Melting Point / Freezing

Point

: 57.7± 0.17°C

Boiling Point : Not Applicable

Flash Point : Not Applicable





Auto Ignition Temp : Not applicable Flammable Limits Not applicable

0.0347 x 10⁻³ g/lit at 20 °C Solubility in Water

10. Stability and Reactivity

> **Chemical Stability** : Product is stable under ambient condition of storage.

Materials to Avoid : Avoid contact with strong oxidizing agent, acids, alkalis etc.

Hazardous

Decomposition Product

Refer to section no. 5

Hazardous

Polymerisation

Not known

11. **Toxicological Information**

> **Health Hazards** Refer to section no. 3

Acute Toxicity The product is practically non-toxic. However, exposure case should

be treated symptomatically.

Route(s) of Entry

Ingestion: LD50, oral, rat: >2000 mg/kg body weight of rat LD50, dermal, rat: > 2000 mg/kg body weight

Inhalation: 4 hour LC50, rat: >3.39 mg/L air

12. **Ecological Information**

Acute Oral Toxicity in

Birds

In Mallard duck>2000 mg/kg In bob white quail>2000 mg/Kg

Acute Toxicity in Fish Rainbow trout & golden orfe

 LC_{50} (96 hrs) >100mg/L

Acute Toxicity Honey

bees

: LC₅₀ 48 Hrs. >25µg/bee (oral & contact)





13. Disposal Considerations

Waste Treatment Methods

: Keep out of drains, sewers, ditches and waterways.

Left-over material that should not be used or chemically reprocessed and should be disposed of in a landfill approved for pesticide disposal. Other possible methods of disposal are controlled incineration with flue gas

scrubbing

Containers

: Emptied containers may retain vapour and product residue. Observe all

labeled safeguards until container is cleaned or destroyed.

Triple or pressure rinse empty containers. Pour rinse water into formulation tank. Store for collection by approved waste disposal service.

Dispose of as non hazardous industrial waste. Do Not re-use containers.

Disposal of waste and packaging materials must always be in accordance

with all applicable local laws / regulations.

14. Transport Information

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Not hazardous under the applicable DOT, ICAO/IATA, IMO, TDG and Mexican regulations.

UN Classification – Not classified as hazardous material for transport.

DOT (Department Of Transportation)

DOT Proper Shipping Name : Environmentally Hazardous substance, Solid, n. o. s.

(Fluroxypyr 1-mthylheptyl ester)

DOT Hazard class / I D No. : 9

DOT Label : Class-9

HAZCHEM No : 4 W

UN No. : 3077

Packing Group : III

Excel Crop Care Limited, India



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15. Regulatory Information

Contains : Fluroxypyr 1-methylheptyl ester Technical (CAS No.

81406-37-3)

Product Classification

Acute : Yes

Chronic : No

Fire : No

Reactivity : No

Pressure Generating : No

NFPA Codes

Health : 1

Flammability : 0

Reactivity : 0

16. Other Information

This MSDS is intended for worker and transport safety. It summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

This material should be handled by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

This MSDS is not intended for product users who should refer to the product label for safety precautions applicable to them.

The information provided in this safety data sheet is believed to be accurate and reliable, but uses of the product may vary and situations unforeseen by Excel Crop Care Limited may exist. The user has to check the validity of the information under local circumstances.