



MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

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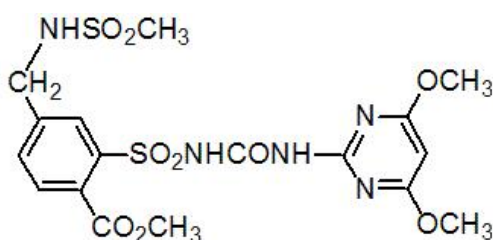
1. Chemical Product Identification

Product Name: Pyrazosulfuron-ethyl 10% WP

Molecular Formula: C₁₄H₁₈N₆O₇S

Molecular Weight: 414.29

Structural Formula:



Chemical Name:

Ethyl 5-(4,6-dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-1-methylpyrazole-4-carboxylate

Form: Powder

Colour: Off white

CAS No.: 93697-74-6

2. Composition / Information On Ingredients

| Composition | CAS No. | Content |
|----------------------|------------|---------|
| Pyrazosulfuron-ethyl | 93697-74-6 | 10% |
| Other ingredients | | 90% |

3. Hazards Identification

This substance is not classified as dangerous according to Directive 67/548/EEC.



4. First Aid Measures

Ingestion: Rinse mouth with water. Give one or two glasses of water and induce vomiting by touching the back of the throat with finger. Get medical attention immediately. Do not give anything by mouth or induce vomiting to an unconscious person.

Eye Contac: Immediately rinse with running water for at least 15 minutes. Seek medical advice.

Skin Contact: Remove all contaminated clothing and footwear from the affected area. Immediately rinse with running water. Wash skin thoroughly with soap and water. If irritation persists, seek medical advice.

Inhalation: If respiratory discomfort occurs, move the person to fresh air. If not breathing, give mouth-to-mouth resuscitation (or artificial respiration). Keep warm with blanket and keep at rest. Seek medical advice.

Notes to Physician: Treatment is symptomatic.

5. Fire-Fighting Measures

Extinguishing Media: Water, foam, dry chemical or carbon dioxide

Fire Fighting Instruction: Fire fighters shall wear full faced self contained breathing apparatus. Move this product away from fire if there is no risk. Use water spray or fog nozzle to keep container or surrounding area cool. Fight fire from upwind position. Keep away from heat and open flame.

Special Hazards: Normal combustion forms carbon dioxide, water vapour and may produce toxic gas such as carbon momoxide, sulfur oxides or nitrogen oxides.

6. Accidental Release Measures

Leak and/or Spill:

Wear protective clothing such as gloves, dust mask, safety shoes and uniform. Evacuate non essential personnel. Prevent spillage from entering the drainage systems or watercourses. Prevent further waste by closing the container properly, shifting its position to stop leakage or placing into another container. Sweep up the spill into closed waste container for disposal, do not raise dust. Wash the contaminated area with a little water and detergent and drain to waste water treatment plant. Always work upwind.



7. Handling And Storage

Handling: Wear dust respirator, rubber gloves, goggles while handling. Local exhaust or mechanical ventilation is desirable. Eye bath and safety shower are desirable. Wash thoroughly after handling.

Storage: Keep tightly closed in original labelled container. Store indoor at room temperature, avoid wet, high humidity, heat or open flame. Keep away from possible contact with water, away from the reach of children and away from food, drinks and animal feeding stuffs.

Other Precautions: Do not reuse the container for other purpose. Avoid excessive dust formation.

8. Exposure Controls/personal protection

Exposure Limit: Not established

Engineering Measures: Not established

Personal Protection:

Respiratory Protection: Dust respirator

Eye Protection: Safety goggles

Skin Protection: Suitable protective clothing and gloves, rubber gloves.

9. Physical And Chemical Properties

Appearance: Off white powder

Water content: $\leq 3.0\%$

Suspensibility: $\geq 90\%$

Wetting time: $\leq 60S$

pH: 6.0-8.0

Fineness(through 44 μm sieve): $\geq 98.0\%$

10. Stability And Reactivity

Stability: Stable under normal storage condition

Conditions to Avoid: Extreme pH, temperature and UV light

Incompatibles: Strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Decomposition Products: CO, SOX, NOX on combustion

Hazardous Polymerization: Will not occur



11. Toxicological Information

Acute oral LD50 for mouse: >5000 a.i.mg/kg.

Acute dermal LD50 for rat: >2000 a.i.mg/kg.

Inhalation LC50 (4 h) for rat: 3.9 a.i.mg/L.

Skin irritation: Not a skin irritant (rabbits).

Eye irritation: Not a eye irritant (rabbits).

Skin sensitization: Not a skin sensitiser (guinea pigs).

12. Ecological And Ecotoxicological Information

Effect on birds: low toxicity to birds, acute oral LD50 for Bobwhites quail is 2250 a.i.mg/kg.

Effect on fish: low toxicity to fish, acute 96 hour LC50 for Rainbow trout is 180 a.i.mg/L.

Effect on aquatic invertebrates: low toxicity to aquatic invertebrates, acute 48 hour EC50 for Daphnia magna is 700 a.i.mg/L.

Effect on algae: low toxicity to algae, acute 72 hour EC50 for Scenedesmus acutus is 150 a.i.mg/L.

Effect on honeybees: moderate toxicity to honeybees, contact acute 48 hour LD50 is 100 a.i.µg/bee.

Effect on earthworms: low toxicity to earthworms, acute 14 day LC50 for Eisenia foetida is 8000 a.i.mg/kg.

13. Disposal Considerations

This product shows high biological efficacy against broad-leaved and grass weeds. It may show effect on non-target crops. Therefore do not contaminate waterways by cleaning of equipment or disposal of wastes. Untreated effluent should not be discharged where it will drain into lakes, streams or ponds. Wastes resulting from manufacture and formulation that cannot be used or chemically reprocessed should be disposed of by incinerator equipped with scrubber in accordance with all applicable regulations.

14. Transport Information

Follow all applicable regulations. Those directly responsible for transport must know their loads contain, and what action must be taken in the event of emergency. Special care must be taken during loading and unloading to prevent damage to the containers. This product must not be loaded with food or feed.



15. Regulatory Information

Not applicable

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.