

MATERIAL SAFETY DATA SHEET

PRODUCT : Fipronil 80% WG

PRODUCT DESIGNATION : Insecticide

Section 1. Product & Company Identification

Common Name : Fipronil
Grade : Formulation
Active Ingredient : Fipronil
Chemical Name of Active Ingredient (IUPAC) : 5-Amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(trifluoromethanesulfinyl)-1H-pyrazole-3-carbonitrile
Chemical Family of A. I. : phenylpyrazole
Molecular Formula of A. I. : C₁₂H₄Cl₂F₆N₄OS
Molecular Mass of A. I. : 437.14g/mol
Manufacturer & Supplier : **M/s United Chemicals**
Head Office: B-371, 1st Floor, Meera Bagh, New Delhi, India
Factory: 15/1, 15/2, 15/3, industrial Area, Vidisha, M.P.
Telephone Number : +91-11-25258770

Section 2. Composition / Information on Ingredients

Components	Concentration
Fipronil	80.00 % w/w
Other components	20.00 % w/w
Total	100.00% w/w

Section 3. Hazards Identification

Emergency Overview Caution .Keep out of the reach of children .Hazard to humans and domestic animals. Harmful if swallowed ,inhaled or absorbed through the skin .Causes eye

irritation .Do not get in eyes ,on skin , Or on clothing .Do not breath spray mist .This pesticide is toxic to birds, fish and aquatic invertebrates.

Eye Causes eye irritation .May because redness, tearing .Do not get it eyes.

Skin Harmful if absorbed through the skin .Do not get on skin or clothing .May produce symptoms similar to those from ingestion .May cause redness, irritation, and swelling.

Ingestion Harmful if ingested .May cause shortness of breath, drowsiness, involuntary, shaking, muscle weakness, and convulsions.

Inhalation Harmful is inhaled. Avoid breathing spray mist .May produced Symptoms similar to those from ingestion. May cause shortness of breath, excitement, involuntary, shaking, irritability.

Medical conditions aggravated by exposure Inhalation of product may aggravate existing chronic respiratory problems Such as asthma emphysema or bronchitis.

Section 4. First Aid Measures

Skin Contact : Remove contaminated clothing and shoes immediately. Wash contaminated area with soap or mild detergent and large amount of water until no effects of chemical remains. If symptoms persists get medical help.

Eye Contact : Irrigate the eyes with large amount water or normal saline occasionally lifting upper and lower lids until no evidence of chemical remains and obtain a medical help.

Ingestion : Remove by gastric lavage and catharsis, maintain blood pressure and airway, Give oxygen if respiration is depressed. Do not perform gastric lavage if victim is victim is unconscious. Get medical attention immediately.

Inhalation : Remove the patient from the exposure area to fresh air immediately. If breathing has stopped perform the artificial respiration. Keep person warm and rest. Get medical attention immediately.

Section 5. Fire Fighting Measures

Extinguishing media Suitable extinguishing media: water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide, water jet

Special hazards arising from the substance or mixture Hazards during fire-fighting: carbon monoxide, carbon dioxide, The substances/groups of substances mentioned can be released in

case of fire. **Advice for fire-fighters** Protective equipment for fire-fighting: Wear self-contained breathing apparatus and chemical-protective clothing.

Section 6. Accidental Release Measures

Personal Preparation : Avoid contact with skin, eyes and clothing.

Environmental Precautions : Prevent contamination of soil, drains and surface water.

Method of cleaning : Absorb the material in the sand, soil, diatomaceous earth or suitable absorbent. Place in suitable material and remove to safe place or dispose of in an incinerator approved for chemicals.

Section 7. Handling & Storage

Handling : Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Section 8. Exposure Control, Personal Protection

Breathing Protection A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

Eye protection where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Protection Where contact is likely, wear chemical resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical resistant footwear. To overhead exposure, wear chemical resistant headgear.

Ingestion Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Section 9. Physical and Chemical Properties

Appearance / state : Light brown Powder

Colour : Light brown

Odour	:	Characterstic smell
Boiling point	:	NA
Vapour pressure	:	1.5 x 10 ⁻⁶ mmHg @ 25°C
Ph	:	8-10
Flash Point	:	NA
Density	:	NA
Water Solubility	:	Dispersive

Section 10. Stability & Reactivity

Stability Stable under standard conditions.

Hazardous Polymerization Will not occur. Conditions to avoid Flame, heat, ignition sources and strong oxidizers

Section 11. Toxicological Information

Acute Oral Toxicity- LD ₅₀	Rat: 149 mg/kg
Acute Dermal Toxicity- LD ₅₀	Rat: 530mg/kg
Acute Inhalation - LD ₅₀	Rat: >0.4 mg/l Air (4h)
Eye irritation	Non Irritating to eyes
Skin Irritation	Non Irritating to eyes
Skin Sensitization	Not a skin sensitizer

Section 12. Ecological Information

Toxicity to Fishes	LC50 (96 h) 0.291 mg/l, Oncorhynchus mykiss
	LC50 (48 h) 0.223 mg/l, Daphnia magna
Toxicity to Bees	Toxic to bees

Section 13. Disposal Consideration

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed on site (by use according to the label) or at an approved waste disposal facility. Further information can be obtained from the EPA or the equivalent state and local agencies.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Check with EPA, State, and local authorities for the current regulations applicable to your area for disposal of waste containers.

Section 14. Transport Information

IMDG Classification

Shipping name : Environmentally hazardous substance, solid, n.o.s.
Class : 6.1
Packing group : II
UN number : 2588
Marine pollutant : Yes

Section 15. Regulatory Information

Uk Regulatory References The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). EU Legislation Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Section 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 resented 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

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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 produces formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS. Accordingly, no guarantee or warrantee expressed or implied is made by United Chemicals, as to the results to be obtained based upon the user's use of the information, nor does United Chemicals, assume any liability arising out of user's use of the information.

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