

MATERIAL SAFETY DATA SHEET**ROACH TECH (Fipronil 0.05%)****1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND SUPPLIER**

PRODUCT NAME : ROACH TECH
CHEMICAL GROUP : Fipronil 0.05% Gel Bait
RECOMMENDED USE : Household Insecticide for cockroach control
MOLICULAR FORMULA : $C_{12}H_4C_{12}F_6N_4OS$
CORPORATE ADDRESS : **Arbuda Agrochemicals Limited**
1104, Ruby Crescent Business Boulevard,
Ashok Chakravarti Road, Kandivali-East, Mumbai-400101,
Maharashtra, India Customer Care No- +91 9076907642
Email - info@arbudaagrochemicals.com
MANUFACTURER ADDRESS : **Arbuda Agrochemicals Limited**
Plot No-279-283, GIDC, Taluka -Talod
District- Sabarkantha, Gujarat - 383215

2. COMPOSITION / INFORMATION ON INGREDIENTS**Components contributing to hazard:**

Ingredient : FIPRONIL GEL
Registration No. : CIR-131100/2015-Fipronil (Gel) (354)-647
Average % by Weight : 0.05%
CAS No. : **120068-37-3**

3. HAZARDS IDENTIFICATION**Emergency Overview:**

Caution! Keep exposed gel away from open food and food contact surfaces. Harmful if absorbed through skin. Moderate eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after Handling. Hazardous to marine and aquatic life.

Physical State : GEL
Appearance : Brown
Routes of Exposure : Eye Contact, Skin Absorption, Skin Contact, Ingestion

Immediate effects eye

Avoid contact with eyes. Moderately irritating to the eyes following prolonged direct contact.

Skin

Avoid contact with skin, eyes and clothing. Harmful if absorbed through skin. Moderately irritating to skin following prolonged direct contact.

Ingestion

Do not take internally.

Medical Condition Aggravated by Exposure

No specific medical conditions are known which may be aggravated by exposure to this product.

4. FIRST AID MEASURES**General**

When possible, have the product container or label with you when calling a poison control centre or doctor or going for treatment.

Eye

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control centre immediately.

Skin

Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 Minutes. Call a physician or poison control centre immediately.

Ingestion

Call a physician or poison control centre immediately. Rinse out mouth and give water in small sips to drink. Do not induce vomiting unless directed to do so by a physician or poison control centre. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Inhalation

Move to fresh air. If person is not breathing, call an ambulance, and then give artificial respiration, preferably mouth-To-mouth if possible. Call a physician or poison control centre immediately.

NOTE to physician Treatment

There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's Condition is recommended.

5. FIRE-FIGHTING MEASURES

Flash point : N/A

Fire and Explosion Hazard

In the event of fire the following can be released : Sulphur oxides

Nitrogen oxides (NO_x)

Hydrogen fluoride

Suitable Extinguishing Media

Dry chemical, Foam, Water, Carbon dioxide (CO₂)

Fire Fighting Instruction

Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or Water courses. In the event of fire and/or explosion do not breathe fumes. Fire-fighters should wear approved self-contained Breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated Surfaces.

Additional Advice

Use personal protective equipment. If spilled on the ground, the affected area should be scraped clean and Placed in an appropriate container for disposal.

Methods for cleaning up

Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following clean-up.

7. HANDLING AND STORAGE

Handling precautions

Product will stain porous surfaces

Storage requirements

Keep tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children and animals. Protect against heat/overheating. Keep away from direct sunlight.

Work/Hygienic Procedures

Keep away from food, drink and animal feeding stuffs. Wash hands thoroughly with soap and water after handling and before eating, drinking, and chewing gum, using tobacco, using the toilet or applying cosmetics.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection

Follow all label instructions. Train employees in safe use of the product. Follow the manufacturer's instructions for Cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and Wash PPE separately from other laundry.

ENGINEERING CONTROLS	:	Ensure adequate ventilation.
EYE AND FACE PROTECTION	:	Protective eyewear.
HAND PROTECTION	:	Chemical resistant nitrile rubber gloves.
BODY PROTECTION	:	Face Mask , Head Cap, Safety shoes etc. Skin contact should be prevented. Use suitable protective clothing, gloves and footwear, selected with regard to use conditions and exposure potential.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	:	Gel
Color	:	Brown
Bulk Density	:	9.51 lbs/gal

Conditions to avoid.

Extremes of temperature and direct sunlight.

Exposure to moisture

Incompatibility

Strong oxidizing agents
 Strong bases
 Strong acids

10. STABILITY AND INFORMATION

Reactivity	:	Stable under normal conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	Store only in the original container.
Hazardous decomposition products	:	No decomposition products expected under normal conditions of use.

11. TOXICO LOGICAL INFORMATION

Acute toxicity data have been bridged from a similar formulation containing a slightly higher percentage of the active ingredient, Fipronil. The non-acute information pertains to technical-grade active ingredient.

Acute Oral Toxicity	:	Rat: LD50: > 2,000 mg/kg
Acute Dermal Toxicity	:	Rat: LD50: > 2,000 mg/kg
Acute Inhalation Toxicity	:	Rat: LD50: > 2.9 mg/l Exposure time 1hr. Rat LD50: > 11.6 mg/l Exposure time 1hr. Extrapolated from the 4 hrLC50
Skin Irritation	:	Rabbit: Slight Irritation
Eye Irritation	:	Rabbit: No eye irritation.
Sensitization	:	Guinea pig: Non-sensitizing.
Chronic Toxicity	:	Fipronil caused liver, kidney or thyroid effects and/or neurobehavioral effects (e.g. tremors) in chronic toxicity studies in rats and dogs. Fipronil did not induce any microscopic lesions in the neural tissues.
Reproductive & Developmental Toxicity	:	REPRODUCTION: Fipronil was not considered a primary reproductive toxicant in rats. DEVELOPMENTAL TOXICITY: Fipronil was not a developmental toxicant in rats and rabbits.
Neurotoxicity	:	Fipronil caused transient neuro behavioral effects (e.g., tremors) in neurotoxicity studies in rats. Delays in developmental landmarks were observed in rats at maternally toxic doses.
Mutagenicity	:	Fipronil was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

12. ECOLOGICAL INFORMATION

Environmental Precautions

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label

13. DISPOSAL CONSIDERATION**General Disposal Guidance**

It is best to use the entire product in accordance with label directions. If it is necessary to dispose of unused product, please follow Container label instructions and applicable local guidelines. Never place unused product down any indoor or outdoor drain

Container Disposal

Do not re-use empty containers. Place empty containers in trash.

Follow advice on product label and/or leaflet.

14. TRANSPORT INFORMATION**ADR/RID/AND**

UN number	:	3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (FIPRONIL MIXTURE)
Transport hazard class(es)	:	9
Packaging Group	:	III
Environm. Hazardous Mark	:	YES
Hazard no.	:	90
Hazchem Code	:	3Z
Tunnel Code	:	-

This classification is in principle not valid for carriage by tank vessel on inland waterways.

Please to the manufacturer for further information

IMDG

UN number	:	3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (FIPRONIL MIXTURE)
Transport hazard class(es)	:	9
Packaging Group	:	III
Marine pollutant	:	Yes

IATA

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID,
N.O.S.
(FIPRONIL MIXTURE)
Transport hazard class(es) : 9
Packaging Group : III
Environm. Hazardous Mark : YES

Special precautions for user

See sections 6 to 8 of this Safety Data Sheet

Transport in bulk according to Annex II of MARPOL and the IBC Code

No transport in bulk according to the IBC Code.

15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture

Further information

WHO classification: III (Slightly hazardous)

Labeling according to Insecticide Rules 1971 as amended. (INDIA)

Class II : Moderately toxic

Colour : bright yellow Poison!

Keep out of the reach of children.

16. OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

H301	:	Toxic if swallowed
H302	:	Harmful if swallowed
H310	:	Fatal in contact with skin
H311	:	Toxic in contact with skin
H314	:	Causes severe skin burns and eye damage
H315	:	Causes skin irritation
H317	:	May cause an allergic skin reaction
H318	:	Causes serious eye damage
H330	:	Fatal if inhaled
H372	:	Causes damage to organs through prolonged or repeated exposure
H400	:	Very toxic to aquatic life

Abbreviations and acronyms

ADN	:	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	:	Acute toxicity estimate
CAS-Nr	:	Chemical Abstracts Service number
Conc.	:	Concentration
EC-No.	:	European community number
ECx	:	Effective concentration to x %
EINECS	:	European inventory of existing commercial substances
ELINCS	:	European list of notified chemical substances
EN	:	European Standard
EU	:	European Union
IATA	:	International Air Transport Association
IBC	:	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	:	Inhibition concentration to x %
IMDG	:	International Maritime Dangerous Goods

LC _x	:	Lethal concentration to x %
LD _x	:	Lethal dose to x %
LOEC/LOEL	:	Lowest observed effect concentration/level
MARPOL	:	International Convention for the prevention of marine pollution from ships
N.O.S.	:	Not otherwise specified
NOEC/NOEL	:	No observed effect concentration/level
OECD	:	Organization for Economic Co-operation and Development
RID	:	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	:	Time weighted average

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The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up-to-date information. The information given in this data sheet does not constitute or replace the user's own assessment or work risk as required by other health and safety legislation.