

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

ACCUSAVE

Date of Preparation	23/02/2012
Date of Issue	23/02/2012
MSDS No	FORM_MSDS_R&D_057_00
Renewal Date/No	

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PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

1. MATERIAL/PREPARATION AND COMPANY/OWNER IDENTIFICATION:

1.1 Material/Preparation Identification:

Product Name : ACCUSAVE
Product Content : FIPRONIL
Formulation Form : Flowale Concantrate For Seed Treatment (FS)
Cas No : 120068-37-3
EC No : 424-610-5
IRAC : 2B phenylpyrazole

1.2 Usage of the Material/Preparation:

Insecticide

1.3 Company Identification:

Manufacturing and License Holding Company:

Company Name: AGRİ SCIENCES TARIM VE İLAÇ ÜR. SAN. TİC. LTD. ŞTİ.

Address : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR

Telephone : +90 0232 864 13 33

Fax : +90 0232 864 16 79

1.4 Emergency Contact Telephone:

In case of an emergency please call +90 0232 864 13 33.

2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS / ELINCS	Hazard	R ¹	Classification
Fipronil	500	120068-37-3	424-610-5	T, N	R23/24/25, R48/25, R50, R53	T; R23/24/25, R48/25, N; R50, R53
Propylene Glycol	80	57-55-6	200-338-0	-	-	-
Others	Outside classification due to absence of hazardous material.					

- ¹ R explanations are under section 16.

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3. HAZARD IDENTIFICATION:



T:Toxic

R23/24/25

: Toxic by inhalation, in contact with skin and if swallowed.

R48/25

swallowed

: Toxic: danger of serious damage to health by prolonged exposure if

R50

: Very toxic to aquatic organisms.

R53

: May cause long-term adverse effects in the aquatic environment.



N: Dangerous For The Environment

4. FIRST AID MEASURES

TOXICOLOGICAL SYMPTOMS: Chilling result of influencing of central nervous system, in further lethargy or convulsions.

FIRST AID MEASURES: In case contact the skin, take off dirty clothes and wash exposed skin with plenty of soapy water. In case contact of eye, wash with plenty of water for 20 minutes. In case of swallowed, call a doctor, show the label or the package.

ANTIDOTE AND REQUIRED INFORMATION: No specific antidote is known. Keep the patient supervision of a doctor. Fipronil reversible GABA receptor is inhibitor. Treatment of intestinal is slow, reduced absorption with gastric lavage, laxative and activated charcoal. It's known that phenobarbital is effective in of convulsions caused by excessive ingestion of fipronil.

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5. FIRE FIGHTING MEASURES

Fire extinguishing appliance: Basınçlı su, CO₂, yangın söndürme tozu, köpük, kum. Mümkün mertebe tehlike oluşmasına meydan vermeden yangın çıkışına ani müdahale edilmelidir. Koruyucu maske takın.

In areas which is well-ventilated: Full face mask with combined filters (it doesn't protect carbon monoxide!)

In closed areas: Isolation tool (which is not affected by environment, respiration by independent air source). Prevent fire water to spread to environment.

Take hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxide gases into consideration during fire.

6. ACCIDENTAL RELEASE MEASURES:

General Information: Please use the personal protection equipment defined under Section 8.

Personal Precautions: Do not touch spilled product or contaminated surfaces. Do not eat, drink or smoke while handling spilled product.

Spill Clean-up Procedure: Collect the product with a liquid retaining material (e.g. sand, sawdust, chemical binders). Place the product into tight plastic containers and keep safely until it is disposed. Contaminated materials and surfaces should be cleaned in compliance with environmental regulations.

Additional Measures: Look section 7 for safe usage. Look section 8 for personal protective equipment. Look section 13 for disposal.

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7. HANDLING AND STORAGE

Handling : Please use the personal protection equipment specified under Section 8. Do not eat or drink while handling the product. Avoid contact with the mouth, the skin or the eyes. Do not inhale the product. After handling the product thoroughly you're your hands. When handling closed containers no additional safety precautions other than the specified ones are needed. Only handle the product in rooms with a local suction device.

Storage : Please store the product in its original container, in a cool, dry and well-ventilated place. Keep away from food, drink and animal feed items. Protect from exposure to direct sunlight. Protect against freezing. Keep the product away from the reach of children.

Storage degree: 0-40° C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Precautions: Ensure appropriate general or local ventilation to keep the product concentration under allowed limits.

Personal Protection Equipment:

Eye: Use eye protection equipment compliant with EN 166.

Skin: Use protective clothing and appropriate gloves. Use 2 layers of clothing, if possible. Use CE marked Nitrile Rubber (min. 0.40 mm thick). Contaminated gloves should be washed. Any gloves that cannot be cleaned inside and outside should be disposed.

Respiratory Protection: Use respiratory apparatuses compliant with EN 149:2001. Any respiratory protection apparatus should only be used for short term operations, as a part of risk minimization measures, e.g. in case of local ventilation. Comply with operation instructions and warnings of the manufacturer during use of respiratory protection apparatuses.

Good Hygiene Conditions: Do not eat, drink or smoke while handling the product. Make sure to wash your hands each time before eating, drinking, smoking or going to the toilet.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Apperance	: Liquid
Colour	: Red
Odor	: Odorless
Density	: $1,2 \pm 0,05 \text{ g/cm}^3$ (20 ⁰ C)
pH	: 5-9 (% 10 solusion)

10. STABILITY AND REACTIVITY

Conditions to avoid: Extreme temperatures and exposure to direct sunlight

Sakınılması gereken maddeler: -

Hazardous reactions: When stored and handled appropriately no hazardous reactions are observed.

11. TOXICOLOGICAL INFORMATION

Fipronil Technic Material

Oral Acute oral LD₅₀ for rats 97, mice 95 mg/kg. Skin and eye Acute percutaneous LD₅₀ for rats >2000, rabbits 354 mg/kg. Not a skin or eye irritant (OECD criteria). Not a skin sensitiser. Inhalation LC₅₀ (4 h) for rats 0.682 mg/l (tech.; nose only exposure). NOEL (2 y) for rats 0.5 mg/kg diet (0.019 mg/kg b.w.); (18 mo) for mice 0.5 mg/kg diet; (52 w) for dogs 0.2 mg/kg b.w. daily (combined sexes). ADI/RfD (JMPR) 0.0002 mg/kg b.w. [2000], group ADI for fipronil and fipronil desulfinyl; (EFSA) 0.0002 mg/kg b.w. [2006]; (EPA) 0.0002 mg/kg b.w. [1994]. Other Non-mutagenic, non-teratogenic; no adverse effect on reproductive performance. Clinical signs of toxicity consistent with the interaction of the molecule at a neurotransmitter receptor were observed in all species tested, but were completely reversible. Toxicity Class WHO (a.i.) II; EPA (formulation) II EC classification T; R23/24/25, R48/25| N; R50, R53| (concn. dep.)

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12. ECOTOXICOLOGICAL INFORMATION

Fipronil Technic Material

Birds Acute oral LD₅₀ for bobwhite quail 11.3, mallard ducks >2000, pheasants 31, red-legged partridges 34, house sparrows 1120, pigeons >2000 mg/kg. Dietary LC₅₀ (5 d) for bobwhite quail 49, mallard ducks >5000 mg/kg diet. Fish Acute LC₅₀ (96 h) for bluegill sunfish 85, rainbow trout 248, European carp 430 µg/l. Daphnia LC₅₀ (48 h) 0.19 mg/l; for *D. carinata* (48 h) 3.8 mg/l. Algae EC₅₀ (96 h) for *Scenedesmus subspicatus* 0.068 mg/l; (120 h) for *Selenastrum capricornutum* >0.16, *Anabaena flos-aquae* >0.17 mg/l. Bees Highly toxic to honeybees, both by direct contact and by ingestion. However, no risk to bees when used as a soil or seed treatment. Worms Non-toxic.

13. DISPOSAL CONSIDERATIONS

Product : Do not dispose product waste together with household wastes. Waste residue should not be spilled into wastewater canals. Any product wastes should be disposed of in compliance with Hazardous Wastes Control Regulations.

Contaminated Materials : Empty containers should not be used for other products. Completely emptied and rinsed containers should be disposed in compliance with regulations. Non-clearable containers should be disposed of as hazardous materials.

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14. TRANSPORT INFORMATION

ADR/RID/ADNR /RID/ADNR

UN-No. : 2902
Hazard Mark : 6.1
Packing Group : III
Product feature : UN 2902 Pesticide, liquid, toxic n.o.s. (Including Fipronil .)

IMDG

UN-No. : 2902
Hazard Mark : 6.1
Packing Group : III
EMS : -
Marine Pulluant : Yes
Product feature : :UN 2902 Pesticide, liquid, toxic n.o.s. (Including Fipronil .)

IATA

UN-No. : 2902
Hazard Mark : 6.1
Packaging Group : III
Product Feature : :UN 2902 Pesticide, liquid, toxic n.o.s. (Including Fipronil .)

15. REGULATORY INFORMATION

This data sheet is prepared based on regulation on preparation and distribution of safety data sheets about hazardous materials and preparations (O.G. issue no 27092 dated 26/12/2008)

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T:Toxic



N: Dangerous For The Environment

Hazardous Materials Listed on the Label

Contains Fipronil

Risk Phrases

Physicochemical -

Health:

R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.

R48/25 : Toxic: danger of serious damage to health by prolonged exposure if swallowed

Environment

R50 : Very toxic to aquatic organisms.

R53 : May cause long-term adverse effects in the aquatic environment.

Safety Phrases

S1/2: Keep locked up and out of the reach of children.

S4 Keep away from living quarters

S13: Keep away from food, drink and animal foodstuffs.

S20 When using do not eat or drink

S28 After contact with skin, wash immediately with plenty of water.

S29 Do not empty into drains.

S35 This material and its container must be disposed of in a safe way.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

S46: If swallowed, go to doctor immediately and show this container or label.

S51 Use only in well-ventilated areas.

S56: Remove this material and its jar in special waste collection point.

S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest

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16. OTHER INFORMATION

N : Dangerous for environment
T : Toxic

All Risk Phrases under Section 2:

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed

R48/25: Toxic: danger of serious damage to health by prolonged exposure if swallowed

R50 Very toxic to aquatic organisms

R53: May cause long-term adverse effects in the aquatic environment.

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Prepared By : Seçil CANAYAKIN

This material safety data sheet is provided as a supplement to instructions of manufacturer; however it does not replace instructions of manufacturer. The information provided in this sheet only conforms to the regulatory criteria known at the time of the preparation of Safety Data Sheet. Required data are gathered in accord with "Regulation on Preparation and Distribution of Safety Data Sheets about Hazardous Materials and preparations (O.G. issue no 27092 dated 26/12/2008)". Concerned organizations and persons are invited to comply with the abovementioned regulation.