

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

FLAZON

Date of Preparation	16/09/2012
Date of Issue	16/09/2012
MSDS No	FORM_MSDS_R&D_083_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 : FLAZON
Product Content : ABAMECTIN 18 g/L
Formulation Form : EC (Emulsion Concentrate)
Cas No : 71751-41-2 (abamectin), 65195-55-3 (avermectin B1a),
65195-56-4 (avermectin B1b)
EC No : 265-610-3 avermectin B1a; 265-611-9 avermectin B1b
IRAC : 6 avermectin

1.2 Usage of the Material/Preparation:

Insecticide

1.3 Company Identification:

Manufacturing and License Holding Company:

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

Address : BekirSaydamCaddesiPancar No: 31 Torbalı / İZMİR

Telephone : +90 0232 864 13 33

Fax : +900232 864 16 79

1.4 Emergency Contact Telephone:

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

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2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Abamectin	18	71751-41-2 (abamectin), 65195-55-3 (avermectin B1a), 65195-56-4 (avermectin B1b)	265-610-3 avermectin B1a; 265-611-9 avermectin B1b	T+; N	R26, R28, R48/25, R50/53, R63	T; R26, R28, R48/25, N; R 50/53
2-pyrrolidinone, 1-methyl	100	872-50-4	212-828-1	T; Xi	R61, R36/37/38	Xi; R36/37/38
Solvesso 100	≥ 700	-	-	Xn; Xi	R10, R36/37/38 R20/65	R10, Xn; R36/37/38, R65
Others	Outside classification due to absence of hazardous material.					

- ¹ R explanations are under section 16.

3. HAZARD IDENTIFICATION:



T: TOXIC



N: DANGEROUS FOR THE ENVIRONMENT

R10 : Flammable.

R26 : Very toxic if inhaled.

R28 : Very toxic if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R48/25: Toxic: Serious hazard for health if exposed through ingestion.

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R50/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: May cause lung damage if swallowed.

4. FIRST AID MEASURES:

Poisoning indicators: Causes mydriasis, impaired concentration in muscles and muscle contraction.

First Aid Measures: In case of contact with eyes: Rinse with plenty of water for at least 15 minutes and seek medical measures.

In case contact with skin: Take out the pesticide contaminated clothes and wash the contacted parts with soap and water.

If inhaled: Take patient to fresh air. Apply artificial respiration if necessary.

If swallowed: Puke the patient by making him/her drink 1-2 glasses of water in case too much exposure with too much pesticide. Do not puke if the patient is unconscious.

Antidote and Required Information: There is no specific antidote. The treatment is applied according to the symptoms. In case of toxicity, puke the patient within 30 minutes. Medical coal should be given. GABA accelerator drugs (Barbiturate, Benzodiazepine, Valproic acid) should be given.

5. FIRE FIGHTING MEASURES

Personal protection equipment for fire fighting: Do not inhale the gases occurred during the explosion and fire. If possible use air-independent respiratory masks.

Hazards: Consider the hazardous gases come out during the fire.

Extinguishers: Foam, Carbon dioxide, fire extinguishing powder.

Other Information: Move the product away from the fire place, cool the containers using water. If possible, use sand and soil after the fire extinguishing liquid.

6. ACCIDENTAL RELEASE MEASURES:

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

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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. The product is prevented from reaching the drains or rivers. If the waste is mixed with water, the authorities will be notified.

Additional Precautions: Refer to Section 7 for safe handling instructions. Refer to Section 8 for personal protections equipment. Refer to Section 13 for disposal.

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 temperature: 0 to 30° 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:

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Eye Protection: Use eye protection equipment compliant with EN 166.

Skin Protection: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Colour	: Yellowish liquid
Odour	: Aromatic
Specific Gravity	: $0,91 \pm 0,05 \text{ g/cm}^3$ (20°C)
pH	: 5-9 (%1 solution)

10. STABILITY AND REACTIVITY

Conditions to avoid: Extreme temperatures and exposure to direct sunlight

Substances to avoid: Keep away from strong acids and bases.

Hazardous reactions: When stored and handled appropriately no hazardous reactions are observed. Toxic and irritant vapours may occur following combustion or thermal

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decomposition. Durable for described storage conditions . Hazardous polymerization products do not occur.

11. TOXICOLOGICAL INFORMATION

Abamectin Technical Material:

Acute oral LD₅₀ (in sesame oil) rat 10, mouse 13.6 mg/kg; (in water) rat 221 mg/kg.
Skin and eye acute Percutan LD₅₀ rabbit >2000 mg/kg.
Other: Not multigenic in Ames test.

12. ECOLOGICAL INFORMATION

Abamectin Technical Material:

Birds acute oral LD₅₀ mallard ducks 84.6, bobwhite quail >2000 mg/kg.

Fish LC₅₀ (96 hours) rainbow trout 3.2, bluegill sunfish 9.6 µg/l.

Alg EC₅₀ (72 hours) *Pseudokirchneriella subcapitata* >100 mg/l.

Bees: Toxic for bees.

13. DISPOSAL CONSIDERATIONS

Waste Disposal : 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. TRANSPORTATION INFORMATION

**ADR/RID/ADNR
/RID/ADNR**



UN-No. : 3082
Class : 9
Packing Group : III
Product Type : UN 3082 ÇEVRESEL TEHLİKELİ MADDE, SIVI N.O.S. (ABAMECTIN, 2-PYRROLİDİNONE, 1 –METHYL VE SOLVESSO 100 İÇERİR.)

IMDG

UN-No. : 3082
Class : 9
Packing Group : III
EMS :
Marine Pollutant : Yes
Product Type : UN 3082 ENVIRONMENTALLY HAZARDOUS MATERIAL, LIQUID N.O.S. (INCLUDES ABAMECTIN, 2-PYRROLİDİNONE, 1 –METHYL AND SOLVESSO 100.)

IATA

UN-No. : 3082
Class : 9
Packing Group : III
Product Type : (INCLUDES ABAMECTIN, 2-PYRROLİDİNONE, 1 –METHYL VE SOLVESSO 100.)

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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Hazard Marks and Symbols:



T: TOXIC

N: DANGEROUS FOR THE ENVIRONMENT

Hazardous Materials Listed on the Label

Includes Abamectin, 2-pyrrolidinone, 1 -methyl and solvesso 100.

Risk Phrases:

Physicochemical: -

R10 : Flammable.

Health:

R26 : Very toxic if inhaled.

R28 : Very toxic if swallowed.

R36/37/38 : Irritates eyes, respiratory system and skin.

R48/25: Toxic: Serious hazard for health if swallowed.

R65: May cause lung damage if swallowed.

Environment:

R 50/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S1/2: Keep locked and away from children.

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

S20: Do not eat or drink during usage.

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S25: Prevent from eye contact.

S26: Wash with plenty of water in case of contact with skin and call a doctor.

S 28: Wash with plenty of water in case of contact with skin.

S 29: Do not spill in sewage system.

S 35: Dispose of this material and its container carefully.

S 38: Insert appropriate respiratory device under insufficient ventilation.

S 36/37/39: Wear appropriate protective clothes, gloves and glass/mask.

S43: Use foam, carbon dioxide, extinguishing powder in case of fire

S45: Call a doctor if you feel bad or in case of accident.

S:46: If swallowed, call a doctor. Show the container or label

S 56: Dispose of this material and its container dangerous or special waste collection areas

S63: In case of inhalation: Take the patient to fresh air and provide him/her resting

S64: In case of swallow, wash the mouth with water (If the patient is conscious)

16. OTHER INFORMATION

N : Dangerous for the environment

Xi : Irritating.

Xn : Harmful

T : Toxic

T+ : Too Toxic

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All Risk Phrases under Section 2:

R10 : Flammable.

R26: Too toxic in case of inhalation

R28 : Very toxic if swallowed..

R36/37/38 : Irritates eyes, respiratory system and skin.

R48/25: Toxic: Serious hazard for health if swallowed.

lung damage if swallowed.

R50/53: Too toxic for aquatic organisms and may cause long-term adverse effects in the aquatic environment

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Prepared By : Secil 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.