

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

ARANDO

Date of Preparation	22/01/2014
Date of Issue	22/01/2014
MSDS No	FORM_MSDS_R&D_120_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 : ARANDO
Product Content : Thiamethoxam 240 g/L
Formulation Form : SC (Suspension Concentrate)
Cas No : 153719-23-4
EC No : 428-650-4

1.2 Usage of the Material/Preparation:

Insecticide

1.3 Company Identification:

Manufacturing and License Holding Company:

Company Name : AGRI SCIENCES TARIM VE ILAC UR. SAN. TIC. LTD. STI.
Address : Bekir Saydam Caddesi Pancar No: 31 Torbali / IZMIR
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.

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2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Thiomethoxam	250	153719-23-4	-	Xn, N	R22, R50/53	N R50/53
Monopropylene glycol	50	57-55-6	-	-	-	-
Others	Outside classification due to absence of hazardous material.					

- ¹ R explanations are under section 16.

3. HAZARD IDENTIFICATION:



N: Hazardous for environment

R50/53: Too toxic for aquatic organisms, can cause long time adverse effect in aquatic environment.

4. FIRST AID MEASURES:

Poisoning symptoms: General poisoning symptoms may arise.

First Aid Measures: Take the precautions stated below in case of poisoning. Call a doctor or take the patient to a doctor with the medicine package and label.

If contaminated eye, wash with plenty of water for at least 15-20 minutes. Call a doctor if the symptoms persist.

In case of contact with skin, take off the contaminated clothes and wash the contaminated part of body with plenty water and soap for 15-20 minutes. Call a doctor if the symptoms persist.

If swallowed, rinse the mouth. Do not induce vomiting. Do not give anything orally or puke the unconscious patient. Call a doctor immediately.

In case of inhale, take the patient to fresh air. Apply artificial respiration if required. Call a doctor immediately.

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Antidote: There is no specific antidote. The treatment is applied according to the symptoms

5. FIRE FIGHTING MEASURES

Personal Protective Equipment during Intervention:

Get intervene to extinguish the fire until a serious danger occurs.

Hazards: The gases to arise in case of fire: Carbon monoxide, carbon dioxide, corrosive gases and vapors.

Prevent the spillage of fire contaminated water.

Cool the containers with plenty of water until the fire is removed.

Extinguishers: Water spray, carbon dioxide, foam, dry chemicals.

Other Details: Do not inhale the vapor, gas and steam exposed. Take all the organisms away from the fire area.

The equipment required for fire-fighting: Use protective clothes and equipment (goggles, mask, gloves, boots). Tube respiratory device is required.

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. Use protective clothes and equipment (goggles, mask, gloves, boots)

Clean-up Methods: Product is collected with liquid holder materials (such as sand, sawdust, chemical binders). Collect the material in tight plastic containers and keep safely until it is disposed. Contaminated materials and surfaces should be cleaned in compliance

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with environmental regulations. Prevent contaminating sewage system or running water by the product. Notify the authorities if the wastes contaminate the water.

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 using. Prevent the contact with mouth, skin and eyes. Do not inhale. Wash your hands after using. Other security precautions are not required except of stated warnings during using the closed package. Use only in rooms, in which there is a local sucking device.

Storage : Keep in original package in cool, dry and well ventilated places. Keep away from food, drink and animal feed items. Keep away from direct sunlight. Protect against freezing. Keep it in places that children cannot reach. Storage temperature -5- 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.

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Respiratory : 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.

Hygiene Measures: Do not eat, drink or smoke while handling the product. Wash your hands each time before eating, drinking, smoking or going to the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
Color : White-beige liquid.
Odor : Odorless
Density : $1,1 \pm 0,05 \text{ g/cm}^3$ (20⁰C)
pH : 5-9 1% (20⁰C)

10. STABILITY AND REACTIVITY

Conditions to be avoided : Extreme degrees and direct sun light.
Materials to be avoided : Not known.
Dangerous reaction : No dangerous reaction in appropriate storage and usage.

The instable material that may arise by degradation: Carbon monoxide, carbon dioxide, nitrogen oxides,

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11. TOXICOLOGICAL INFORMATION

Thiamethoxam

Acute Oral LD₅₀ Rat LD 50: >5000 mg / kg.

Acute dermal: Rat LD 50: >2000 mg / kg

Inhalation Rat LC50: > 1,09 mg/l

Acute effects:

Eye irritation (rabbit): Not irritant.

Skin irritation (rabbit): Not irritant.

Skin sensitivity: Not sensitive. (Guinea pig)

12. ECOLOGICAL INFORMATION

Thiamethoxam

Mallard duck: LD50 576 mg/kg

Rainbow trout: LC50: > 100 mg/l

Bee: LD50 contact: 0,024 µg/bee

Daphnia: (3 hours) LC50: >100 mg/l

Mobility: Not known

Persistence and Degradability: Not known

Bioaccumulative Potential: logP = -0.13 (25 °C) (thiamethoxam)

13. DISPOSAL INFORMATION

Product : Do not dispose it 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

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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.

14. TRANSPORTATION INFORMATION

ADR/RID/ADNR

UN-No. : 3082

Hazard Mark : 9

Packing Group : III

Product type : UN 3082 MATERIAL HARMFUL FOR ENVIRONMENT, LIQUID N.O.S (INCLUDE THIOMETHOXAM.)



IMDG

UN-No. : 3082

Class : 9

Packing Group : III

EMS :

Marine Pollutant : Yes

Product type : UN 3082 MATERIAL HARMFUL FOR ENVIRONMENT, LIQUID N.O.S (INCLUDE THIOMETHOXAM.)

IATA

UN-No. : 3082

Class : 9

Packing Group : III

Product type : UN 3082 MATERIAL HARMFUL FOR ENVIRONMENT, LIQUID N.O.S (INCLUDE THIOMETHOXAM.)

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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).

Hazard Marks and Symbols:



N: Harmful for Environment

Hazardous Materials Listed on the Label

Includes Thiamethoxam.

Risk Phrases :

Physicochemical : -

Health : -

Environment :

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

Safety Phrases:

S1/2 : Lock it up and keep out of the reach of children.

S13 : Keep away from foods, drinks and feeds.

S20 : Do not eat, drink or smoke while using.

S29 : Do not pour to sewage system.

S35 : This substance and tank must be removed safely.

S57 : Use a proper container to prevent from contamination with the environment.

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Important Labeling:

Follow instructions to avoid personal and environmental risks

16. OTHER INFORMATION

N : Harmful for Environment

Xn : Harmful

All Risk Phrases under Section 2:

R22 : It is harmful in case of swallow

R50 : Too toxic for aquatic organisms.

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

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Prepared By : Zeynep Çoban

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.