

PRODUCT SAFETY DATA SHEET

SUBSTANCE / PREPARATION NAME

DANTE 25 EC

Date of preparation	31/08/2011
Release Date	14/09/2011
MSDS No	FORM_MSDS_R&D_038_00
Renewal Date/No	

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TE This form is based on SAFETY DATA FORMS AND REGULATION ABOUT THE PREPARATION AND DISTRIBUTION OF HAZARDOUS SUBSTANCES (dated 26/12/2008 and 27092 numbered).

1. SUBSTANCE/PREPARATION AND COMPANY/ DEFINITION OF BUSINESS OWNER:

1.1 Substance/ Presentation Of The Preparation:

Product Name : DANTE 25 EC
Product Description : Cypermethrin 250 g/L
Formulation Type : EC (Concentrated Emulsion)
Cas No : 52315-07-8
EC No : 257-842-9
IRAC : 3A pyrethroid

1.2 Usage of Substance/Preparation:

Insecticide

1.3 Presentation of the Company:

Manufacturer and Licensee Company:

Company Name : AGRİ SCIENCES TARIM VE İLAÇ ÜR. SAN. TİC. LTD. ŞTİ.
Adress : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR
Telephone : +90 0232 864 13 33
Fax : +90 0232 864 16 79

1.4 Emergency Telephone:

Please call +90 0232 864 13 33 in an emergency.

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2. INFORMATION ABOUT THE CENTENT / COMPOSITION:

Substance	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Cypermethrin	250	52315-07-8	257-842-9	T, Xn, Xi, N	R20, R25 R48/22, R37, R50, R53	T; R20, R25, R48/22,R37, N; R50, R53
Xylene	>500	1330-20-7	215-535-7	Xn, Xi	R10, R20/21, R38	R10, Xn; R20/21, Xi; R38
Others	These are excluded because of not containing hazardous substance.					

- Descriptions about ¹R are given in chapter 16.

3. IDENTIFICATION OF HAZARDS:



T: Toxic

- R10 : Flammable.
- R20/21 : Harmful, if inhaled and contact with skin.
- R25 : Toxic, if swallowed.
- R48/22 : Harmful: danger of serious damage to health by prolonged ingestion.
- R37 : Irritating to respiratory system.
- R38 : Irritating the skin.
- R50 : Very toxic for aquatic organisms.
- R53 : May cause long-term adverse effects in aquatic environments.



N: Dangerous for the environment

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4. First Aid Precautions:

Symptoms of Poisoning: There are not any specific symptom. General symptoms are; initially nausea, vomiting, stomachache and diarrhea. It can cause to skin and eye irritation when contacted with drug.

İlkyardım Önlemleri: If it is contacted with eye, flush eyelids slowly for 10 - 15 minutes.If necessary, consult to a doctor with medication.If the patient swallowed, vomiting the patient. stomach should be washed, by paying attention to not to escape the stomach contents into the respiratory tract.

Antidote and Required Information: There is no a special antidote. Supportive treatment according to symptoms.

5. FIRE CONFLICT PRECAUTIONS

Required Personal Protective Equipment in Aid: Do not breathe fumes of explosion and fire. If possible, use self contained breathing apparatus during fire.

Hazards: Formation of dangerous gases is taken into account in case of fire.

Fire Extinguishers: Foam, carbon dioxide, extunguishing powder.

Other Informations: Remove the product from fire areas, cool containers with water. If possible, use sand or earth after fire fighting water.

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6. ACCIDENTAL RELEASE PRECAUTIONS:

General Information: Use personal protection devices, specified in section 8.

Personal Alerts: Avoid contact with spilled product or contaminated areas. Do not eat, drink or smoke when dealing with spilled product.

The Cleaning Process: The product is collected with liquid retaining material (such as peat, sawdust, chemical binder. Substance collected into hard plastic containers and stored in a secure way until to destroy. Contaminated substances, cleaned according to environment and ground instructions. The product flowing to drains or sewers is blocked. If waste is mixed with water, it is reported to the authorities.

Additional Precautions: Look at section 7 for safe use. Look at section 8 for personal protective equipment. Look at section 13 for disposal.

7. HANDLING AND STORAGE

Handling : Use personal protective equipments specified in section 8. Do not eat or drink anything during the usage. Avoid contact with skin and eyes. Do not breathe it. Wash your hands after usage. It does not need any other security precautions other than instructions on it. Use only the rooms with appropriate exhaust ventilation.

Storage : Store in original container in a cool, dry and well-ventilated place. Keep away from foods, drinks and animal feedstuffs. Protect from direct sunlight. Protect against freezing, do not put to reach area of children.

The storage temperature 0-30° C

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8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Precautions: Keep the substance concentration below the allowable limits by providing the appropriate general or regional ventilation.

Personal Protective Equipment:

Eye : Use safety glasses according to EN 166.

Skin : Use protective clothing and suitable gloves. If possible, use 2 layers of clothing. Use CE marked Nitrile rubber gloves (min 0,40 mm thick). Wash contaminated gloves. Dispose of the not cleanable gloves.

Respiration: Use breathing apparatus according to EN 149:2001. Breathing apparatus only used in short-term works to reduce the risk, for example, in local ventilations. Warning instructions prepared by manufacturers about respiratory protection apparatus must be followed.

Hygiene Precautions: Do not eat, drink or smoke during usage. Wash your hands every time before going to the toilet, eating, drinking and smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid, clear
Color :Light Brown
Odour : Aromatic
Density : 0,9-1,00 g/cm³ (20⁰C)
pH : 5-9 10% (20⁰C)
Flash Point : min 23 ⁰C.

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10. STABILITY AND REACTION

Conditions to avoid : Extereme temperatures and direct sunlight.

Substances to avoid : Avoid from strong acids and bases.

Hazardous reactions : There is not hazardous reactions when stored and handled suitable. Resistant to storage conditions. Hazardous polymerization products does not occur.

11. TOXICOLOGICAL INFORMATION

Cypermethrin Technical Substance:

Acute oral LD50 rat 250 to 4150 (data 7180), mouse 138 mg / kg.

Skin and eye Acute percutaneous LD50 rat > 4920, rabbits > 2460 mg / kg. Weak purveyors of skin and eye irritation.

Inhalation LC50 (4 h), rat 2.5 mg / l. NOEL (2 years), 5 dogs, rats and 7.5 mg / kg bw ADI / RfD (JMPR) 0.02 mg / kg b.w. (cypermethrin, alpha-cypermethrin and zeta-cypermethrin for the group ADI) [2006]; (EC) 0.05 mg / kg bw [2005]; (JECFA) 0.05 mg / kg b.w. [1996]; (JMPR) 0.05 mg / kg b.w. [1981]; (EPA) aRfD 0.1, cRfD 0.06 mg / kg b.w. [2006].

Toxsite class WHO (ai) II; EPA (formulation) II

12. ECOLOGICAL INFORMATION

Cypermethrin Technical Substance:

Birds Acute oral LD50 duck (mallard ducks) > 10 000, chicken > 2000 mg / kg. Fish LC50 (96 hours), rainbow trout 0.69, Sheepshead minnows 2:37 mg / l; Fish agricultural dosages normally used in field conditions are not at risk. Daphnia LC50 (48 h) 0.15 mg / l. Bees are highly toxic balarilarına laboratory testing, field applications, the recommended dose, but will not raise risk of bee hives. LD50 (24 h) (oral) 0035 mg / bee; (local) 0.02 mg / bee.

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13. DISPOSAL INFORMATION

Product : Wastes should be disposed of with household waste. The remaining amount of waste must not be poured into a sewage canal. Hazardous waste should be disposed of according to control regulations.

Contaminated Packing : Empty containers should be used for other products. Completely emptied and shaken containers must be properly disposed. Uncontaminated packaging should be disposed of as hazardous waste.

14. TRANSPORT INFORMATION

ADR/RID/ADNR

UN-No. : 3351

Hazard Signal : 6.1

Packaging Group : III

Description of the goods : UN 3351 PRETROÏT PESTICIDE, LIQUID, TOXIC, FLAMMABLE (OR HIGH FLASH POINT: 23 0C) (CONTAINING cypermethrin and xylene.)IMDG

UN-No. : 3351

Class : 6.1

Packaging Group : III

EMS :

Marine Pollutant : Yes

Description of the goods : UN 3351 PRETROÏT PESTICIDE, LIQUID, TOXIC, FLAMMABLE (OR HIGH FLASH POINT: 23 0C) (CONTAINING cypermethrin and xylene.)IMDG

IATA

UN-No. : 3351

Class : 6.1

Packaging Group : III

EMS :

Marine Pollutant : Yes

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Description of the goods : UN 3351 PRETROÏT PESTICIDE, LIQUID, TOXIC, FLAMMABLE (OR HIGH FLASH POINT: 23 0C) (CONTAINING cypermethrin and xylene.)IMDG

15. REGULATORY INFORMATION

This form is based on SAFETY DATA FORMS AND REGULATION ABOUT THE PREPARATION AND DISTRIBUTION OF HAZARDOUS SUBSTANCES (dated 26/12/2008 and 27092 numbered).

Hazard Signal and Symbol:



T: Toxic

N: Dangerous for the environment

Hazardous Substances Found On The Label

Containing Cypermethrin and ksilen.

Risk Phrases

Physicochemical:

R10 : Flammable.

Health:

R20/21 : Harmful, if inhaled and contact with skin.

R25 : Toxic, if swallowed.

R48/22 : Harmful: danger of serious damage to health by prolonged ingestion.

R37 : Irritating to respiratory system.

R38 : Irritating the skin.

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Environment

- R50 : Very toxic for aquatic organisms
R53 : May cause long-term adverse effects in aquatic environments.

Safety Phrases:

- S1/2 : Keep away from children and store under lock.
S13 : Keep away from foods, drinks and animal feedstuffs
S20 : Do not eat or drink during the usage.
S28 : Wash with plenty of water after contact with skin.
S 29 : Do not pour into sewer system.
S35 : This substance and its container must be disposed of in a safe manner.
S 36/37/39 : Use suitable protective clothing, gloves and protective goggles/mask.
S43 : Use carbon dioxide, fire extinguish powder, foam in case of exacerbation.
S45 : In case of accident or if you feel unwell, contact a doctor immediately (if possible, show the label).
S:46 : If swallowed, seek medical advice immediately, show the container or label.
S 56 : Dispose the material at hazardous or special waste collection point.
S63 : In the poisoning case remove the patient from the sprayed field, If he/she is at closed area, you must immediately send him to fresh air
S64 : If swallow, rinse mouth with water (Only if the person is conscious).
P11 : Only for professional users.

Important Labeling :

To avoid from risks to man and environment, comply with the instruction of use.
Toxicity class WHO (a.i.) II

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16. DİĞER BİLGİLER

17. OTHER INFORMATIONS

N : Dangerous for the environment
Xi : Irritant
Xn : Harmful
T : Toxic
T+ : Very Toxic

Risk phrases mentioned in Section 2:

R10 : Flammable.
R20/21 : Harmful, if inhaled and contact with skin.
R25 : Toxic, if swallowed.
R48/22 : Harmful: If swallowed, there may be long term risk and serious damage.
R37 : Irritating the respiratory system.
R38 : Irritating the skin.
R50 : Very toxic for aquatic organisms
R53 : May cause long-term adverse effects in aquatic environments.

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Prepared By : Seçil CANAYAKIN

This security information form is additional to manufacturer firm's instructions, however does not replace with instructions. This form contains regulation criterias for preparation of security form preparation. This form is based on safety data forms and regulation about the preparation and distribution of hazardous substances (dated 26/12/2008 and 27092 numbered). Please, the relevant institutions and individuals act according to this regulation.