

**DECIS EC25 (PET) 21379 10X1L IE**

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Version 2 / IRL  
10200002563Revision Date: 19.07.2005  
Print Date: 19.07.2005**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	DECIS EC25 (PET) 21379 10X1L IE
Product code (UVP)	06184170
Product code	AE F032640 00 EC03 B0
Specification	21379
Usage	insecticide
Company	Bayer CropScience Bayer Ltd Chapel Lane, Swords CO Dublin Ireland
Telephone	+353-1-8132222
Telefax	+353-1-8132288
Emergency telephone number	1800-409-399

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**Emulsifiable concentrate (EC)  
Deltamethrin 25 g/l**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Deltamethrin	52918-63-5 258-256-6	T, N	R23/25, R50/53	2.90
Tetrapropylene benzene sulfonate, calcium salt	11117-11-6 234-360-7	C	R21, R34, R52/53	> 1.00 - < 5.00
2-Methylpropan-1-ol	78-83-1 201-148-0	Xi	R10, R37/38, R41, R67	> 1.00 - < 5.00
Solvent Naphtha (petroleum), light aromatic		Xn, N	R10, R37, R51/53, R65, R66, R67	> 50.00

**3. HAZARDS IDENTIFICATION****Risk advice to man and the environment**

**Flammable.**  
**Harmful by inhalation and if swallowed.**  
**Irritating to respiratory system and skin.**  
**Risk of serious damage to eyes.**  
**Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**  
**Harmful: may cause lung damage if swallowed.**

**4. FIRST AID MEASURES**

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Remove contaminated, soaked clothing immediately and dispose of safely.

**Inhalation**

Move the patient to fresh air and keep at rest. If symptoms persist, call a physician.

**Skin contact**

Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. After skin contact: Apply Vitamin E cream or simple toilet milks. When symptoms persist or in all cases of doubt seek medical advice.

**Eye contact**

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Ingestion**

Do not induce vomiting. Wash out mouth with water. Keep at rest. Obtain medical attention.

**Notes to Physician****Symptoms**

Local:, After skin contact: paresthesia (local)., May cause skin and eye irritation., Inhalation may provoke the following symptoms:, irritation, cough

**Symptoms**

Systemic:, excitement, gastrointestinal discomfort, tremors, Dizziness, headache, listlessness, nausea and vomiting, epigastric pain, muscular fasciculation of limbs, unconsciousness, convulsions and coma (very high doses).

**Risks**

This product/preparation contains a pyrethroid.  
Must NOT be confused with organophosphorus compounds!  
Risk of product entering the lungs on vomiting after ingestion.

**Treatment**

Local treatment:  
Initial treatment should be symptomatic and supportive.  
After eye contact: Instillation of local anaesthetic drops e.g. 1% Amethocaine Hydrochloride eye drops. Give Analgesics as necessary.

**Treatment**

Systemic treatment:  
Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.  
Monitoring of respiratory and cardiac functions.  
ECG - monitoring (Electrocardiogram).  
Check for pulmonary oedema in event of inhalation.  
Keep airway clear, administer artificial respiration if necessary.  
Against convulsions: Give diazepam: for adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v.  
There is no specific antidote.  
Contraindication: atropine.  
Contraindication: derivatives of adrenaline.  
Recovery: Spontaneous.

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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

water spray

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alcohol-resistant foam  
dry powder  
carbon dioxide (CO<sub>2</sub>)

**Extinguishing media which must not be used for safety reasons**

high volume water jet

**Specific hazards during fire fighting**

In case of fire the evolution of dangerous gases is possible.

**Special protective equipment for fire-fighters**

In the event of fire and/or explosion do not breathe fumes.

Wear self contained breathing apparatus for fire fighting if necessary.

**Further information**

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

Whenever possible, contain fire-fighting water by diking area with sand or earth.

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**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Keep people away from and upwind of spill/leak.

Avoid contact with spilled product or contaminated surfaces.

When dealing with a spillage do not eat, drink or smoke.

**Environmental Precautions**

Do not allow spilt product to enter soil or waterways

If the product contaminates rivers and lakes or drains inform respective authorities.

Local authorities should be advised if significant spillages cannot be contained.

**Methods for Cleaning Up**

Take up with absorbent material (e.g. sand, earth or a proprietary absorbent material).

Transfer collected material to heavy duty plastic drums and keep safe for disposal.

Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional Advice**

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

Check also for any local site procedures.

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**7. HANDLING AND STORAGE****Handling****Advice on safe handling**

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.

Use only in area provided with appropriate exhaust ventilation.

**Advice on protection against fire and explosion**

The product is flammable.

Keep away from sources of ignition - No smoking.

Vapours may form explosive mixture with air.

**Storage**

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## Requirements for storage areas and containers

Keep containers tightly closed in a cool, well-ventilated place.  
Store in a place accessible by authorized persons only.  
Keep away from direct sunlight.  
Protect against frost.

## Advice on common storage

Keep away from food, drink and animal feedingstuffs.

## Storage stability

Storage temperature 0 - 30 °C

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Control parameters	Update	Basis
2-Methylpropan-1-ol	78-83-1	150 mg/m <sup>3</sup> / 50 ppm (TWA)	2002	ELV (IE)
2-Methylpropan-1-ol	78-83-1	225 mg/m <sup>3</sup> / 75 ppm (STEL)	2002	ELV (IE)

## Additional Advice

Observe: Exposure Limits In Air, Gp3 200mg/m<sup>3</sup>/50ppm. (aromatic-rich hydrocarbon mixes with > 25% aromatics TRGS 901, No. 72)

**Personal protective equipment**

Respiratory Protection Wear respirator conforming to EN140 Type A filter.

Hand Protection Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.

Eye protection Chemical resistant goggles must be worn.

Skin and body protection Light protective clothing, PVC  
PVC boots

## Hygiene measures

When using, do not eat, drink or smoke.  
Remove soiled clothing immediately.  
Remove soaked clothing immediately.  
Clean hands and face at work intervals and after work.  
Work in an adequately ventilated room.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form liquid, clear  
Colour yellow  
Odour aromatic

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pH	4.0 - 6.0 at 5 %
Flash Point	48 °C
Ignition temperature	> 450 °C The data refers to solvent naphtha petroleum.
Upper explosion limit	7.00 %(V) The data refers to solvent naphtha petroleum.
Lower explosion limit	0.8 %(V) The data refers to solvent naphtha petroleum.
Relative vapour density	1.00 The data refers to solvent naphtha petroleum.
Density	ca. 0.89 g/cm <sup>3</sup> at 20 °C
Water Solubility	miscible, emulsifiable
Viscosity, kinematic	1.09 mm <sup>2</sup> /s at 40 °C
Surface tension	27.3 mN/m at 40 °C
Other Information	The product is flammable.

**10. STABILITY AND REACTIVITY**

Conditions to Avoid	Extremes of temperature and direct sunlight.
Materials to avoid	None.
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

**11. TOXICOLOGICAL INFORMATION**

Acute Oral Toxicity	LD50 (rat) 416 mg/kg
Acute Inhalation Toxicity	LC50 (rat) 2.69 mg/l Exposure time: 4 h Irritating to respiratory system.
Acute Dermal Toxicity	LD50 (rat) > 2,000 mg/kg
Skin Irritation	Irritating to skin. (rabbit)
Eye Irritation	Risk of serious damage to eyes. (rabbit)

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Sensitization Non-sensitizing (guinea pig)  
OECD Test Guideline 406, Buehler test

## Further information

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae.  
However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).  
When inhaled in larger quantities, the solvent vapours cause a narcotic effect.

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

Bioaccumulation Bluegill sunfish  
Bioconcentration factor (BCF): 1,400  
The value mentioned relates to the active ingredient deltamethrin.

**Ecotoxicity effects**

Toxicity to Fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 0.00026 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea ( <i>Daphnia magna</i> )) 0.00011 mg/l Exposure time: 48 h
Toxicity to algae	EC50 ( <i>Selenastrum capricornutum</i> ) 1.7 mg/l Exposure time: 96 h

**13. DISPOSAL CONSIDERATIONS****Product**

In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

**Contaminated packaging**

Small containers (< 10 litres) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.  
Add washings to sprayer at time of filling.  
Dispose of empty and cleaned packaging safely.

**Waste key for the unused product**

020108 agrochemical waste containing dangerous substances

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

UN-No	<b>3351</b>
Labels	6.1 (3)
Packaging group	III
Hazard no.	63
Description of the goods	UN 3351 PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE (DELTAMETHRIN, SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC SOLUTION)

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UN-No	<b>3351</b>
Class	6.1
Packaging group	III
EmS	F-E , S-D
Marine pollutant	Marine pollutant
Description of the goods	PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE (DELTAMETHRIN, SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC SOLUTION )

**IATA**

UN-No	<b>3351</b>
Class	6.1
Packaging group	III
Description of the goods	PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE (DELTAMETHRIN, SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC SOLUTION )

**15. REGULATORY INFORMATION**

Classification and labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

Classification:

Labelling according to EEC Directive

Hazardous components which must be listed on the label:

- Deltamethrin
- Solvent Naphtha (petroleum), light aromatic

Symbol(s)

Xn Harmful  
N Dangerous for the environment

R-phrase(s)

R10 Flammable.  
R20/22 Harmful by inhalation and if swallowed.  
R37/38 Irritating to respiratory system and skin.  
R41 Risk of serious damage to eyes.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S35 This material and its container must be disposed of in a safe way.  
S39 Wear eye/face protection.  
S57 Use appropriate container to avoid environmental contamination.  
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.

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Further information  
WHO-classification: II (Moderately hazardous)

**16. OTHER INFORMATION****Further information**

Text of R phrases mentioned in Section 2:

R10	Flammable.
R21	Harmful in contact with skin.
R23/25	Toxic by inhalation and if swallowed.
R34	Causes burns.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

The information given in this Data Sheet has been included in accordance with the guidelines established by EC Directive 1991/155/EC as amended. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.