

**DECIS® FLUXX EC 025****Ukraine**

1/9

Version 2 / EU
102000020023

Revision Date: 02.07.2009

Print Date: 13.08.2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name	DECIS FLUXX EC 025
Product code (UVP)	79446403
Usage	Insecticide
Company	Bayer CropScience AG Alfred-Nobel-Straße 50 40789 Monheim am Rhein Germany
Telephone	+49(0)2173-38-3373
Telefax	+49(0)2173-38-7394
Responsible Department	Material and Transport Safety Management +49(0)2173-38-3409/4566 Email: INFO.EHS@bayercropscience.com

Emergency telephone number +49(0)2133-51-4233 (Sicherheitszentrale Dormagen, Bayer AG)

2. 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Emulsifiable concentrate (EC)

Deltamethrin 25 g/l

Hazardous components

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-pharse(s)	Concentration [%]
Deltamethrin	52918-63-5 258-256-6	T, N	R23/25, R50/53	2,70
Isotridecanol, ethoxylated	9043-30-5 5000272	Xn	R22, R41	> 1,00 - < 25,00
γ-Butyrolactone	96-48-0 202-509-5	Xn	R22, R41	> 1,00 - < 25,00
2-Ethylhexyl lactate	228-503-2		R36/38	> 1,00 - < 20,00
Dodecyl benzene sulphonate, calcium salt	26264-06-2 247-557-8	Xi	R38, R41	> 1,00 - < 5,00
2-Methylpropan-1-ol	78-83-1 201-148-0	Xi	R10, R37/38, R41, R67	> 1,00 - < 5,00

**DECIS® FLUX EC 025****Ukraine**

2/9

Version 2 / EU
102000020023

Revision Date: 02.07.2009

Print Date: 13.08.2009

Solvent Naphtha (petroleum), light aromatic	64742-95-6 265-199-0	Xn, N	R10, R37, R51/53, R65, R66, R67	> 25,00
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For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES**General advice**

Remove contaminated clothing immediately and dispose of safely.

Inhalation

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

Skin contact

In case of skin contact, immediately wash with plenty of soap and water for at least 15 minutes. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists.

Ingestion

Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Risk of product entering the lungs on vomiting after ingestion. If swallowed, seek medical advice immediately and show this container or label.

Notes to Physician**Symptoms**

Local:., Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours., Skin, eye and mucous membrane irritation, Cough

Symptoms

Systemic:., Discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration

Risks

This product contains a pyrethroid.
Must NOT be confused with organophosphorus compounds!

Treatment

Local treatment:
Initial treatment: symptomatic.



DECIS® FLUX EC 025

Ukraine

3/9

Version 2 / EU
102000020023

Revision Date: 02.07.2009
Print Date: 13.08.2009

Treatment

Systemic treatment:
Initial treatment: symptomatic.
Monitor: respiratory and cardiac functions.
In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.
Keep respiratory tract clear.
Give oxygen or artificial respiration if needed.
In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens.
If not effective, phenobarbital may be used.
Contraindication: atropine.
Contraindication: derivatives of adrenaline.
There is no specific antidote.
Recovery is spontaneous and without sequelae.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which should not be used for safety reasons

High volume water jet

Specific hazards during fire fighting

Dangerous gases are evolved in the event of a fire.

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

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.

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 to get into surface water, drains and ground water.

Methods for cleaning up

Keep in suitable, closed containers for disposal.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Clean floors and contaminated objects with plenty of water.

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.

**DECIS® FLUXX EC 025****Ukraine**

4/9

Version 2 / EU
102000020023Revision Date: 02.07.2009
Print Date: 13.08.2009**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

Keep away from heat and sources of ignition.

Vapours may form explosive mixture with air.

Storage

Requirements for storage areas and containers

Store in a place accessible by authorized persons only.

Keep away from direct sunlight.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Temperature tolerance	min.	max.
	-20 °C	40 °C

Suitable materials

Tinplate with interior lacquer

Black mild steel sheet with interior coating

Coextruded containers with an internal barrier layer made of ethylene vinyl alcohol copolymer (EVOH)

Coextruded containers with an internal barrier layer made of polyamide (PA)

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

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0,02 mg/m ³		OES BCS*
2-Methylpropan-1-ol (Vapor.)	78-83-1	10 mg/m ³	12 1988	

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Additional Advice

Observe: Exposure Limits In Air, Group 3: 100 mg/m³/ 20 ppm. (aromatic-rich hydrocarbon mixes with > 25% aromatics TRGS 901, No. 72).

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory Protection

Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent. Respiratory protection should only be used to control residual risk of

**DECIS® FLUXX EC 025****Ukraine**

5/9

Version 2 / EU
102000020023

Revision Date: 02.07.2009

Print Date: 13.08.2009

	short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
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	Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
Skin and body protection	Wear standard coverall and type 6 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.
Hygiene measures	When using, do not eat, drink or smoke. Remove soiled clothing immediately and clean thoroughly before using again. Wash hands immediately after work, if necessary take a shower.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid, clear to slightly turbid
Colour	light yellow to brownish
Odour	aromatic

Safety data

pH	3 - 6 at 1 % (23 °C)
Flash point	47 °C
Ignition temperature	405 °C
Upper explosion limit	7,00 %(V) The data refer to solvent naphtha petroleum.
Lower explosion limit	0,8 %(V) The data refer to solvent naphtha petroleum.
Relative vapour density	1,00 The data refer to solvent naphtha petroleum.
Density	approx. 0,93 g/cm ³ at 20 °C
Water solubility	miscible

**DECIS® FLUX EC 025****Ukraine**

6/9

Version 2 / EU
102000020023

Revision Date: 02.07.2009

Print Date: 13.08.2009

Viscosity, kinematic	1,10 mm ² /s at 20 °C Shearstress of 20/sec
Viscosity, kinematic	1,13 mm ² /s at 20 °C Shearstress of 100/sec
Viscosity, kinematic	0,828 mm ² /s at 40 °C Shearstress of 20/sec
Viscosity, kinematic	0,868 mm ² /s at 40 °C Shearstress of 100/sec
Surface tension	23 mN/m at 25 °C Determined in the undiluted form.
Oxidizing properties	No oxidizing properties
Explosivity	Not explosive.

10. STABILITY AND REACTIVITY

Conditions to Avoid	Extremes of temperature and direct sunlight.
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	(rat) 320 - 2.000 mg/kg
Acute Inhalation Toxicity	(rat) 2,401 mg/l Exposure time: 4 h
Acute Dermal Toxicity	(rat) > 2.000 mg/kg
Skin Irritation	Irritating to skin. (rabbit)
Eye Irritation	Severe eye irritation. (rabbit)
Sensitization	Non-sensitizing. (guinea pig)

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).

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

**DECIS® FLUX EC 025****Ukraine**

7/9

Version 2 / EU
102000020023Revision Date: 02.07.2009
Print Date: 13.08.2009

Bioaccumulation Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 1.400
The value mentioned relates to the active ingredient deltamethrin.

Ecotoxicity effects

Toxicity to Fish LC50 (Rainbow trout (Oncorhynchus mykiss)) 0,0304 mg/l
Exposure time: 96 h

Toxicity to daphnia EC50 (Water flea (Daphnia magna)) 0,00327 mg/l
Exposure time: 48 h

Toxicity to algae EC50 (Algae) 62,1 mg/l
Exposure time: 96 h
Test conducted with a similar formulation.

13. DISPOSAL CONSIDERATIONS**Product**

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

Contaminated packaging

Triple rinse containers.
Do not re-use empty containers.
Not completely emptied packagings should be disposed of as hazardous waste.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

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

UN-Number	1993
Labels	3
Packaging group	III
Hazard no.	30
Description of the goods	FLAMMABLE LIQUID, N.O.S. (DELTAMETHRIN, SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC SOLUTION)
Tunnel Code	D/E
Special Provision	640E

This classification is in principle not valid for carriage by tank vessel on inland waterways.
Please refer to the manufacturer for further information.

IMDG

UN-Number	1993
Labels	3
Packaging group	III
EmS	F-E , S-E
Marine pollutant	Marine pollutant
Description of the goods	FLAMMABLE LIQUID, N.O.S.

**DECIS® FLUX EC 025****Ukraine**

8/9

Version 2 / EU
102000020023

Revision Date: 02.07.2009

Print Date: 13.08.2009

(DELTAMETHRIN, SOLVENT NAPHTHA (PETROLEUM)
LIGHT AROMATIC SOLUTION)**IATA**

UN-Number	1993
Labels	3
Packaging group	III
Description of the goods	FLAMMABLE LIQUID, N.O.S. (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:

Hazard warning labelling compulsory

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-phrases(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-phrases(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.

Further information

WHO-classification: II (Moderately hazardous)

16. OTHER INFORMATION**Further information**

Text of R-phrases mentioned in Section 3

R10	Flammable.
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DECIS® FLUXX EC 025

Ukraine

9/9

Version 2 / EU
102000020023

Revision Date: 02.07.2009
Print Date: 13.08.2009

R22	Harmful if swallowed.
R23/25	Toxic by inhalation and if swallowed.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to 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.
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 Regulation (EC) 1907/2006. 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.