

**DLT+TCP OD 10+100 G****U-EU**

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Version 2 / EU
102000008150

Revision Date: 15.06.2009

Print Date: 17.06.2009

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

Trade name	DLT+TCP OD 10+100 G	U-EU
Product code (UVP)	06002463	
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**

Harmful if swallowed.
Irritating to eyes and skin.
Limited evidence of a carcinogenic effect.
May cause sensitization by skin contact.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Oil dispersion (OD)
Thiacloprid 100 g/l, Deltamethrin 10 g/l

Hazardous components

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Thiaclopride	111988-49-9	Xn, N	R20/22, R40, R50/53	10,40
Deltamethrin	52918-63-5 258-256-6	T, N	R23/25, R50/53	1,00
2-Ethylhexanol propylene ethyleneglycol ether	64366-70-7		R52/53	> 1,00 - < 25,00
Alkylaryl sulfonate	247-557-8	Xi	R38, R41	> 5,00 - < 10,00
2-Ethylhexanole	104-76-7 203-234-3	Xi	R36/38	> 1,00 - < 20,00
Ethoxylated alcohol		Xn	R22, R38, R41	< 5,00

For the full text of the R-phrases mentioned in this Section, see Section 16.



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4. FIRST AID MEASURES

General advice

Move out of dangerous area. Remove contaminated clothing immediately and dispose of safely. Place and transport victim in stable position (lying sideways).

Inhalation

Keep patient warm and at rest. Move to fresh air. Call a physician or poison control center immediately.

Skin contact

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Call a physician or poison control center immediately.

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. Call a physician or poison control center immediately.

Ingestion

Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

Notes to Physician

Treatment

Treat symptomatically.
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.
Symptoms of poisoning may only appear several hours later.

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

In the event of fire the following may be released:
Hydrogen chloride (HCl)
Hydrogen cyanide (hydrocyanic acid)
Carbon monoxide (CO)
Nitrogen oxides (NOx)
Sulphur oxides

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.
In the event of fire, wear self-contained breathing apparatus.

Further information

Contain the spread of the fire-fighting media.
Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

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Personal Precautions

Avoid contact with spilled product or contaminated surfaces.
Use personal protective equipment.

Environmental Precautions

Do not allow to get into surface water, drains and ground water.

Methods for cleaning up

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

Additional Advice

Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE**Handling**

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Storage

Requirements for storage areas and containers

- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Store in original container.
- Store in a place accessible by authorized persons only.
- Store bulk material and packed materials in a closed warehouse or under cover protected against direct sunlight and frost.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

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

Suitable materials

- HDPE (high density polyethylene)
- 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)
- Black mild steel sheet with interior coating
- Deformation through oxygen consumption possible.

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

Components	CAS-No.	Control parameters	Update	Basis
Thiaclopride	111988-49-9	0,56 mg/m ³		OES BCS*
Deltamethrin	52918-63-5	0,02 mg/m ³		OES BCS*



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

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 If product is handled while not enclosed, and if contact may occur:
Wear respirator with an organic vapours and gas filter mask
(protection factor 10) conforming to EN140 type A or equivalent.
Breathing apparatus with 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 Wear goggles conforming to EN166 (Field of Use 5 or equivalent).

Skin and body protection Wear standard coverall and type 3 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

- Avoid contact with skin, eyes and clothing.
- Keep working clothes separately.
- Wash hands before breaks and immediately after handling the product.
- Wash hands immediately after work, if necessary take a shower.
- Remove soiled clothing immediately and clean thoroughly before using again.
- Garments that cannot be cleaned must be destroyed (burnt).

Protective measures

- If product is handled while not enclosed, and if contact may occur:
Complete suit protecting against chemicals

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid, suspension
Colour white
Odour weak, characteristic

Safety data

pH 3,5 - 6,0 at 1 % (20 °C)
Flash point 103 °C
Ignition temperature 405 °C

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Density	approx. 1,00 g/cm ³ at 20 °C
Water solubility	miscible
Surface tension	21,5 mN/m Determined in the undiluted form.
Explosivity	Not explosive. 92/69/EEC, A.14 / OECD 113

10. STABILITY AND REACTIVITY

Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.
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11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat) > 300 - < 2.000 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 4,793 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol. Highest attainable concentration.
Acute Dermal Toxicity	LD50 (rat) > 4.000 mg/kg
Skin Irritation	Irritating to skin. (rabbit)
Eye Irritation	Irritating to eyes. (rabbit)
Sensitization	sensitizing (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to Fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 0,386 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 0,0427 mg/l Exposure time: 48 h
Toxicity to algae	IC50 (<i>Pseudokirchneriella subcapitata</i>) 96,7 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient thiaclopride.

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|| Toxicity to algae

EC50 (Pseudokirchneriella subcapitata) > 9,1 mg/l
Growth rate; Exposure time: 96 h
The value mentioned relates to the active ingredient deltamethrin.

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

|| 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	3082
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DELTAMETHRIN)
Tunnel Code	E

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	3082
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DELTAMETHRIN)

IATA

UN-Number	3082
Labels	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DELTAMETHRIN)

15. REGULATORY INFORMATION

Classification and labelling in accordance with the EC Directive on dangerous

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preparations 1999/45/EC as amended.

Classification:

Labelling according to EC Directives

Hazardous components which must be listed on the label:

- Thiaclopride
- Deltamethrin

Symbol(s)

Xn	Harmful
N	Dangerous for the environment

R-phrases(s)

R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S24	Avoid contact with skin.
S35	This material and its container must be disposed of in a safe way.
S36/37	Wear suitable protective clothing and gloves.
S57	Use appropriate container to avoid environmental contamination.

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

R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R23/25	Toxic by inhalation and if swallowed.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to eyes.
R50/53	Very 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.

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.

Bayer CropScience

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



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