



K-OTHRINE SC25 12X1L BOT MDE

Version 2 / TR
102000017408

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Revision Date: 24.10.2014
Print Date: 23.11.2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name K-OTHRINE SC25 12X1L BOT MDE
Product code (UVP) 79112947
Usage Insecticide
Address
Telephone 0216 528 36 00
Telefax 0216 5287 87 0
Responsible Department Kalite, Sağlık, Güvenlik, Çevre Bölümü
Telephone: Telephone 0262 648 77 12
Telefax: 0262 641 20 72
Email: esra.guven@bayer.com
Emergency telephone no. 0262 641 20 70
Ulusal Zehir Merkezi 114

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Suspension concentrate (=flowable concentrate)(SC)
Deltamethrin 25 g/l

Hazardous components

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Deltamethrin	52918-63-5 258-256-6	T, N	R23/25, R50/53	2,427
Mixture of 5-Chlor-2-methyl-3(2H)-isothiazolon and 2-Methyl-2H-isothiazol-3-on	55965-84-9	T, C, N	R23/24/25, R34, R43, R50/53	> 0,0002 - < 0,0015
1,2-Benzisothiazol-3(2H)-one	2634-33-5 220-120-9			> 0,005 - < 0,05

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

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

General advice

Remove contaminated clothing immediately and dispose of safely.



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Inhalation

Move the victim to fresh air and keep at rest. Call a physician or poison control center immediately.

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. 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, Sneezing

Symptoms

Systemic:, Discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy

Risks

This product contains a pyrethroid.
Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.

Treatment

Local treatment:
Initial treatment: symptomatic.

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.
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.



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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Extinguishing media which shall not be used for safety reasons

High volume water jet

Specific hazards during firefighting

Dangerous gases are evolved in the event of a fire.

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

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Clean floors and contaminated objects with plenty of water.

Additional advice

Check also for any local site procedures.

Reference to other sections

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

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

Ensure adequate ventilation.

Advice on protection against fire and explosion

No special precautions required.

Storage

Requirements for storage areas and containers



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

Advice on common storage
Keep away from food, drink and animal feedingstuffs.

Suitable materials
HDPE (high density polyethylene)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0,02 mg/m3 (TWA)		OES BCS*

*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 Respiratory protection is not required under anticipated circumstances of exposure.
Respiratory protection should only be used to control residual risk of 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 of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and 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 coveralls and Category 3 Type 6 suit.
If there is a risk of significant exposure, consider a higher protective type 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.



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Hygiene measures

When using, do not eat, drink or smoke.

Remove soiled clothing immediately and clean thoroughly before using again.

Contaminated work clothing should not be allowed out of the workplace.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Wash hands immediately after work, if necessary take a shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	suspension
Colour	white to light beige
Odour	weak, characteristic

Safety data

pH	3,0 - 7,0 100 %at(23 °C)
Flash point	> 100 °C Test conducted with a similar formulation.
Ignition temperature	415 °C Test conducted with a similar formulation.
Density	ca. 1,03 g/cm ³ 20 °Cat
Water solubility	miscible
Explosivity	Not explosive
Other information	Further safety related physical-chemical data are not known.

10. STABILITY AND REACTIVITY

Conditions to avoid	Extremes of temperature and direct sunlight.
Materials to avoid	Store only in the original container.
Hazardous Decomposition Products	No decomposition products expected under normal conditions of use.
Thermal decomposition	Stable under normal conditions.
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.

11. TOXICOLOGICAL INFORMATION



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Acute oral toxicity	LD50 (rat) > 15.000 mg/kg Test conducted with a similar formulation.
Acute inhalation toxicity	LC50 (rat) > 2,3 mg/l Exposure time: 4 h No deaths Highest attainable concentration. Test conducted with a similar formulation.
Acute dermal toxicity	LD50 (rat) > 10.000 mg/kg Test conducted with a similar formulation.
Skin irritation	No skin irritation (rabbit) Test conducted with a similar formulation.
Eye irritation	No eye irritation (rabbit) Test conducted with a similar formulation.
Sensitisation	Non-sensitizing. (mouse) OECD Test Guideline 429, local lymph node assay (LLNA)
Assessment Mutagenicity	Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Assessment Carcinogenicity	Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.
Assessment toxicity to reproduction	Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.
Assessment developmental toxicity	Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Deltamethrin are related to maternal toxicity.
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

Ecotoxicity effects

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 100 mg/l Exposure time: 96 h Test conducted with a similar formulation.
Toxicity to aquatic invertebrates	EC50 (Water flea (Daphnia magna)) 0,0019 mg/l Exposure time: 48 h Test conducted with a similar formulation.



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Toxicity to aquatic plants EC50 (Scenedesmus subspicatus) > 1.000 mg/l
Growth rate Exposure time: 72 h
Test conducted with a similar formulation.

Toxicity to aquatic plants EC50 (Scenedesmus subspicatus) > 1.000 mg/l
Biomass Exposure time: 96 h
Test conducted with a similar formulation.

Further information on ecology

Additional ecological information
No other effects to be mentioned.

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/ADN

UN number	3082
Labels	9
Packaging group	III
Hazard no.	90
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DELTAMETHRIN SOLUTION)
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	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DELTAMETHRIN SOLUTION)



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IATA

UN number	3082
Labels	9
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DELTAMETHRIN SOLUTION)

15. REGULATORY INFORMATION

Hazardous components which must be listed on the label:

- Deltamethrin

|| Labelling according to specific Turkish legislation:

Classification:

|| Hazard label for supply/use required.

Symbol(s)

|| N

Dangerous for the environment



R-phrase(s)

|| R50/53

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

|| Restricted to professional users.

S-phrase(s)

|| S35
|| S57

This material must be disposed of in a safe way.

Use appropriate container to avoid environmental contamination.

Further information

WHO-classification: U (Unlikely to present acute hazard in normal use)

16. OTHER INFORMATION

Further information

Text of R-phrases mentioned in Section 2

R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R23/25	Toxic by inhalation and if swallowed.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 453/2010 amending Regulation (EU) No 1907/2006 (and any subsequent amendments). This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge

Bayer Environmental Science

SAFETY DATA SHEET Prepared according to 1907/2006/EC and Preparation of Safety Data Sheet Regulation (26 Aralık 2008-27092).



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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.