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



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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name DECIS PROTECH

Product code (UVP) 80269285

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer CropScience Limited

230 Cambridge Science Park

Milton Road Cambridge

Cambridgeshire CB4 0WB

United Kingdom

Telephone +44(0)1223 226500 Telefax +44(0)1223 426240

Responsible Department Email: ukinfo@bayercropscience.com

1.4 Emergency telephone no.

Emergency telephone no. 0800-220876 (UK 24 hr)

+44(0)1635-563000 (Overseas 24 hr)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Flammable liquids: Category 3

H226 Flammable liquid and vapour.

Acute aquatic toxicity: Category 1

H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1

H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

Deltamethrin





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Signal word: Warning Hazard statements

H226 Flammable liquid and vapour.

H410 Very toxic to aquatic life with long lasting effects.

EUH208 Contains 1,2-Benzisothiazolin-3-one, 5-chloro-2-methyl-isothiazol-3-one/2-methyl-

isothiazol-3-one, alpha-hexylcinnamaldehyde, benzylsalicylate. May produce an allergic

reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for

use.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P240 Ground/bond container and receiving equipment.

P280 Wear protective gloves/protective clothing/eye protection.

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or

collection site except for empty clean containers which can be disposed of as non-

hazardous waste.

2.3 Other hazards

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).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Emulsion, oil in water (EW) Deltamethrin 15 g/l

Hazardous components

Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. /	Classification	Conc. [%]	
	EC-No. / REACH Reg. No.	Regulation (EC) No 1272/2008		
Deltamethrin	52918-63-5 258-256-6	Aquatic Chronic 1, H410 Aquatic Acute 1, H400 Acute Tox. 3, H301 Acute Tox. 3, H331	1.47	
Benzyl benzoate	120-51-4 204-402-9	Acute Tox. 4, H302 Aquatic Chronic 2, H411	> 2.50 - < 25.00	
Cyclohexanone	108-94-1 203-631-1	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Flam. Liq. 3, H226	> 1.00 - < 25.00	
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412	>1-<3	
Benzyl salicylate	118-58-1	Skin Sens. 1, H317	> 0.10 - <	

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	204-262-9	Aquatic Chronic 2, H411	2.50
Linalyl acetate	115-95-7 204-116-4	Eye Irrit. 2, H319 Skin Irrit. 2, H315	> 0.10 - < 2.50
.alpha Hexylcinnamaldehyde	101-86-0 202-983-3	Skin Sens. 1, H317 Aquatic Chronic 2, H411	> 0.10 - < 0.25
1,2-Benzisothiazol-3(2H)- one	2634-33-5 220-120-9	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	> 0.005 - < 0.05
Mixture of 5-Chlor-2- methyl-3(2H)-isothiazolon and 2-Methyl-2H- isothiazol-3-on	55965-84-9	Skin Corr. 1B, H314 Aquatic Chronic 1, H410 Aquatic Acute 1, H400 Skin Sens. 1, H317 Acute Tox. 3, H301 Acute Tox. 3, H331 Acute Tox. 3, H311	> 0.0001 - < 0.0015
1,2-Propanediol	57-55-6 200-338-0	Not classified	> 1.00

Further information

Deltamethrin	52918-63-5	M-Factor: 1,000,000 (acute), 1,000,000 (chronic)

Substances for which there are Community workplace exposure limits: Cyclohexanone (108-94-1)

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice Remove contaminated clothing immediately and dispose of safely.

Remove contaminated clothing immediately and dispose of safely. In

the case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

Inhalation Move to fresh air. Keep patient warm and 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.

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Ingestion DO NOT induce vomiting unless directed to do so by a physician or

poison control center. Rinse out mouth and give water in small sips to

drink. Keep patient warm and at rest.

4.2 Most important symptoms and effects, both acute and delayed

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

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

4.3 Indication of any immediate medical attention and special treatment needed

Risks This product contains a pyrethroid. Pyrethroid poisoning should not be

confused with carbamate or organophosphate poisoning.

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.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

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

dioxide.

Unsuitable High volume water jet

5.2 Special hazards arising

from the substance or

mixture

Dangerous gases are evolved in the event of a fire.

5.3 Advice for firefighters

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.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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.

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water. If spillage enters drains leading to sewage works inform local water company immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800

807060).

6.3 Methods and materials for containment and cleaning up

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.

6.4 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.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe 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 Keep away from heat and sources of ignition. Vapours may form explosive mixture with air. Take measures to prevent the build up of

electrostatic charge. Use only explosion-proof equipment.

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.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container and out of the reach of children, preferably in a locked storage area. 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 Combination of sheet metal and HDPE (high density polyethylene)

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7.3 Specific end uses

Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0.02 mg/m3 (TWA)		OES BCS*
Cyclohexanone	108-94-1	41 mg/m3/10 ppm (TWA)	12 2011	EH40 WEL
Cyclohexanone	108-94-1	82 mg/m3/20 ppm (STEL)	12 2011	EH40 WEL
Cyclohexanone	108-94-1	81.6 mg/m3/20 ppm (STEL)	12 2009	EU ELV
Cyclohexanone	108-94-1	40.8 mg/m3/10 ppm (TWA)	12 2009	EU ELV
1,2-Propanediol (Particulate.)	57-55-6	10 mg/m3 (TWA)	12 2011	EH40 WEL
1,2-Propanediol (Total vapour and particulates.)	57-55-6	474 mg/m3/150 ppm (TWA)	12 2011	EH40 WEL

^{*}OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

8.2 Exposure controls

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

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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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form Liquid Colour white

Odour weak, characteristic

2.0 - 4.0 at 100 % (23 °C) pН

Flash point 56.5 °C

Density ca. 1.02 g/cm3 at 20 °C

Water solubility miscible

Partition coefficient: n-

octanol/water

Deltamethrin: log Pow: 6.4 at 25 °C

Viscosity, dynamic 50 - 120 mPa.s at 20 °C Velocity gradient 20 /s

50 - 100 mPa.s at 20 °C Velocity gradient 100 /s

9.2 Other information Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of No hazardous reactions when stored and handled according to hazardous reactions prescribed instructions.

10.4 Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials Store only in the original container.

10.6 Hazardous decomposition products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD50 (rat) > 2,000 mg/kg

Test conducted with a similar formulation.

Acute inhalation toxicity ATE > 5.0 mg/l

ATE - acute toxicity estimate

Acute dermal toxicity LD50 (rat) > 2,000 mg/kg

Test conducted with a similar formulation.

Skin irritation Slight irritant effect - does not require labelling. (rabbit)

Test conducted with a similar formulation.

Eye irritation Slight irritant effect - does not require labelling. (rabbit)

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Test conducted with a similar formulation.

Sensitisation Non-sensitizing. (guinea pig)

OECD Test Guideline 406, Buehler test Test conducted with a similar formulation.

Assessment repeated dose toxicity

Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

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).

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 0.014 mg/l

Exposure time: 96 h

Test conducted with a similar formulation.

Toxicity to aquatic

EC50 (Daphnia magna (Water flea)) 0.0007 mg/l

invertebrates

Exposure time: 48 h

Toxicity to aquatic plants EC50 (Algae) 5.35 mg/l

Growth rate; Exposure time: 72 h

Test conducted with a similar formulation.

12.2 Persistence and degradability

Biodegradability Deltamethrin:

not rapidly biodegradable

Koc Deltamethrin: Koc: 10240000

12.3 Bioaccumulative potential

Bioaccumulation Deltamethrin: Bioconcentration factor (BCF) 1,400

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Deltamethrin: Immobile in soil

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Deltamethrin: This substance is not considered to be persistent,

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bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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. Advice may be obtained from the local waste regulation authority (part

of the Environment Agency in the UK).

Contaminated packaging Small containers (< 10 l or < 10 kg) 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.

Large containers (> 25 I or > 25 kg) should not be rinsed or re-used for

any other purpose.

Return large containers to supplier.

Follow advice on product label and/or leaflet.

Waste key for the unused

product

02 01 08* agrochemical waste containing dangerous substances

SECTION 14: TRANSPORT INFORMATION

ADR/RID/ADN

14.1 UN number 1993

14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S.

(DELTAMETHRIN, CYCLOHEXANONE SOLUTION)

14.3 Transport hazard class(es)314.4 Packing groupIII14.5 Environm. Hazardous MarkYESHazard no.30Tunnel CodeD/ESpecial Provision640E

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

IMDG

14.1 UN number 1993

14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S.

(DELTAMETHRIN, CYCLOHEXANONE SOLUTION)

14.3 Transport hazard class(es)

3

14.4 Packing group

14.5 Marine pollutant

YES

IATA

14.1 UN number 1993

14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S.

(DELTAMETHRIN, CYCLOHEXANONE SOLUTION)

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14.3 Transport hazard class(es)14.4 Packing group14.5 Environm. Hazardous MarkNO

UK 'Carriage' Regulations

14.1 UN number 1993

14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S.

(DELTAMETHRIN, CYCLOHEXANONE SOLUTION)

14.3 Transport hazard class(es) 3
14.4 Packing group III
14.5 Environm. Hazardous Mark YES
Emergency action code 3Y

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK and Northern Ireland Regulatory References

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

Transport

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367) Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

Supply and Use

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716) Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009

Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)

EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits

Control of Pesticide Regulations 1986

Dangerous Substances and Explosive Atmospheres Regulations 2002

Waste Treatment

Environmental Protection Act 1990, Part II

Environmental Protection (Duty of Care) Regulations 1991

The Waste Management Licensing Regulations 1994 (as amended)

Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended)

Landfill Directive

Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

Water Resources Act 1991

Anti-Pollution Works Regulations 1999

Further information

WHO-classification: III (Slightly hazardous)

15.2 Chemical Safety Assessment

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A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H331 Toxic if inhaled.H332 Harmful if inhaled.H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

CAS-Nr. Chemical Abstracts Service number

Conc. Concentration

EC-No. European community number ECx Effective concentration to x % Worker Exposure Limit

EH40 WEL Worker Exposure Limit

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

EN European Standard EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code) Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

ICx

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SI Statutory Instrument TWA Time weighted average

UN United Nations

WHO World health organisation

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The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Reason for Revision: Safety Data Sheet according to Regulation (EU) No. 453/2010.

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