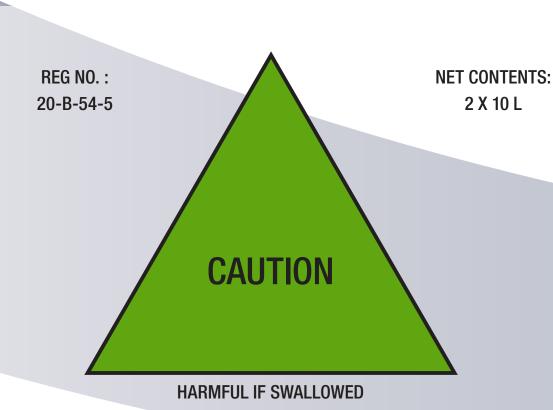


FUNGICIDE

A suspension concentrate Fungicide for control of stem canker and black scurf caused by RHIZOCTONIA SOLANI.



COMPOSITION:MASS/VOLUMEPencycuron250 g/lInert ingredients750 g/l

Chemical Group: Phenylurea

Supplied by:



Gowan Crop Protection Limited

Highlands House, Basingstoke Road, Spencers Wood, Reading, Berks, United Kingdom, RG7 1NT. (Registered company number: 9852199) Batch No: Date of Manfacture: Expiry Date:

Registered by:



AGRO-SERVICES

Pivotal Agro-Services (Pvt) Ltd. PO Box WGT 450, Westgate, Harare Telephone: (263/242) 309800 / 25

TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE

PRECAUTIONS:

- 1. KEEP OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.
- 2. DO NOT CONTAMINATE GRAZING, RIVERS, DAMS AND OTHER WATER SOURCES.
- 3. DO NOT eat, drink or smoke whilst mixing and during application.
- 4. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
- 5. On completion of spraying, wash hands thoroughly with soap and water.
- 6. Wear full protective clothing including gloves and googles when handling and applying this product.
- 7. PREVENT CONTAMINATION OF FOOD, FEED, DRINKING WATER AND EATING UTENSILS.
- 8. Store in original container in a cool, dry place away from direct sunlight. KEEP UNDER LOCK AND KEY.
- 9. Store at temperatures of not more than 30°C or less than 5°C.

EMPTY CONTAINER DISPOSAL

Rinse empty container three times with a volume of water equal to at least one tenth of that of the container and add the rinsings to the content of the spray tank before disposing of the container in the prescribed manner. Destroy empty container by perforation and flattening. Never use for any other purpose. If possible offer for recycling.

CLEANING OF APPLICATION EQUIPMENT:

Clean applicator/spraying equipment thoroughly after use and ensure that all traces of **Monceren® 250 SC** are removed. Make use of the following method: a) Drain and rinse tank, spray boom and hoses with clean water for at least 10 minutes. b) Fill tank with clean water and add 1.0 litre household bleach (Sodium hypochlorite) 5% or 1.5 litres of household bleach (3.5%) per 200 litres of water. Rinse hoses and spray boom and leave in tank for 15 minutes whilst agitating. Drain through nozzle outlets. c) Repeat step (b) and thereafter, rinse thoroughly with clean water and dispose of the wash water at a site designated for disposal of pesticides.

SYMPTOMS OF POISOINING

No known acute or delayed effects from exposure to the product.

FIRST AID

- 1. **Inhalation:** Move to fresh air. Keep patient warm and at rest. Call physician Or poison control centre immediately.
- 2. **Skin contact:** Wash thoroughly with plenty of soap and water, if available with Polyethylene glycol 400, subsequently rinse with water.
- 3. **Eye contact:** Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. remove contact lenses, if present, after first 5 minutes, then Get medical attention if irritation develops and persists.
- 4. **Ingestion: DO NOT** induce vomiting. Call a physician or poison centre Immediately. Rinse mouth with clean water.

NOTE TO PHYSICIAN:

Treat symptomatically.

Antidote: No specific antidote known.

WARRANTY:

Although this remedy has been tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animals or for lack of performance of the remedy concerned due to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

FOR FURTHER INFORMATION ON THIS PRODUCT OR IN CASE OF EMERGENCY, TELEPHONE HARARE (263-242) 309825.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

APPLICATION RATES:

CROP	DISEASE	PRODUCT RATES	COMMENTS
Seed Potatoes Tubers	Stem canker/ black scurf (Rhizoctonia solani)	Dip treatment: 750 mL/ 100 L water	Dip treatment: Dip the potato tubers in the Monceren® 250 SC suspension for 2 minutes, Dip for 10 minutes when used together with Myconate or ProGib 4% (Refer to Myconate or ProGib 4% label). NOTE: Replenish the dipping tank with original concentration (i.e. 750ml/100L water) after treating at least 1000kg seed potato tubers. Prepare a fresh suspension in the dipping tank once the water becomes too murky or muddy. Ensure that the tubers are totally submerged in the Monceren® 250 SC suspension. Allow the potatoes to dry in the shade before planting.
		Spray application: 2,0 L / 1,000 kg tubers	Spray application: Spray 4.0L Monceren® 250 SC suspension per 1000kg seed potato tubers whilst tubers pass on the conveyor belt. Use at least two nozzles mounted above the conveyor bell so as to ensure good coverage of the tubers
		Spray application with the Spraymiser applicator: 80 ml / 1,000 kg tubers in 3 L water	Apply Monceren® 250 SC suspension with the Sprayer miser applicator to the tubers on the roller table.
		Dip treatment or Spray application Followed by: Furrow application: 0.5ml/m planting furrow	Planting furrow treatment: Spray the Monceren® 250 SC mixture in the planting furrow from ridge-tip to ridge-tip either over the treated tubers after planting or before the treated tubers are planted. Use 8006 or 8008 flat fan nozzle and apply 3.0 to 4.0L spray mixture/100m furrow length. Monceren® 250 SC may also be used in tank mixture with Kiplant VS04 for the simultaneous control of Rhizoctonia and nematodes. Warning: 1) When the above mentioned mixture is applied the application should be in such a manner that the tubers are not covered by the spray mixture Apply in the furrow before planting of tubers. 2) It is mandatory that the furrow treatment is preceded by a Monceren® 250 SC dip treatmen or spray application or another registered tuber treatment against Rhizoctonia. NOTE: Monceren® 250 SC MAY ALSO BE USED WITH SAFETY ON SPLITS or CUT TUBERS.

MIXING INSTRUCTIONS:

Pre-dilute the required quantity of **Monceren® 250 SC** in a bucket with little water and then add to dipping or spray tank to give the required dilution of 750ml **Monceren® 250 SC** per 100L of water and 2.0L **Monceren® 250 SC** per 100L water respectively. Ensure thorough agitation of the dipping or spray tank whilst adding. Stir the suspension during dipping or spray application.

Registered to:



Gowan Crop Protection Limited

Highlands House, Basingstoke Road, Spencers Wood, Reading, Berks, United Kingdom, RG7 1NT. (Registered company number: 9852199)



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

1.1 Product identifier

Trade name MONCEREN SC250

Product code (UVP) 00786411

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

Use Fungicide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer (Pty) Ltd.

27 Wrench Road, P.O. Box 143

1600 Isando South Africa

Telephone +27 (011) 921 5911 **Telefax** +27 (011) 921 5766

Responsible Department QHSE - Nigel, South Africa

+27 (011) 365 8675 (during business hours only)

1.4 Emergency telephone no.

Emergency telephone no. +27 (0861) 555 777 (Western Cape Poisons Helpline)

Global Incident Response

Hotline (24h)

+1 (760) 476 3964 (Company 3E for Bayer AG, Crop Science Division)

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.

Chronic aquatic toxicity: Category 2

H411 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:

Pencycuron



Hazard statements

H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains 1,2-benzisothiazolin-3-one, reaction mass of:

5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1). May



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produce an allergic reaction.

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

Precautionary statements

P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Suspension concentrate (=flowable concentrate)(SC) Pencycuron 250 g/l

Hazardous components

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. /	Classification	Conc. [%]
	EC-No. / REACH Reg. No.	REGULATION (EC) No 1272/2008	
Pencycuron	66063-05-6	Aquatic Chronic 1, H410 Aquatic Acute 1, H400	22,94
Ethanediol	107-21-1	STOT RE 2, H373	> 1 - < 10
Mixture of: 5-chloro-2-methyl-4-isothi azolin-3-one and 2-methyl-4-isothiazolin-3- one	55965-84-9	Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	> 0,0002 - < 0,0015
1,2-Benzisothiazol-3(2H)- one	2634-33-5	Skin Sens. 1, H317 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400	> 0,005 - < 0,05

Further information

Pencycuron	66063-05-6	M-Factor: 1 (acute), 1 (chronic)

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

Inhalation Move to fresh air. Keep patient warm and at rest. 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.



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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. Get medical attention if irritation

develops and persists.

Ingestion Do NOT induce vomiting. Call a physician or poison control center

immediately. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Water spray, Carbon dioxide (CO2), Foam, Sand

5.2 Special hazards arising from the substance or

mixture

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

Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for firefighters

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Avoid contact with spilled product or contaminated surfaces. Use

personal protective equipment.

6.2 Environmental

precautions

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

6.3 Methods and materials for containment and cleaning up

Methods for cleaning upClean contaminated floors and objects thoroughly, observing

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

suitable, closed containers for disposal.

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 Use only in area provided with appropriate exhaust ventilation.



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Advice on protection against Keep away from heat and sources of ignition.

fire and explosion

Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes

separately. 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). Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in a place accessible by authorized persons only. Keep containers

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

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Suitable materials 7.3 Specific end use(s) HDPE (high density polyethylene) Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Pencycuron	66063-05-6	5 mg/m3 (TWA)		OES BCS*
Ethanediol	107-21-1	125 mg/m3 (STEL)	1995	ZA REL
(Vapor.)				
Ethanediol	107-21-1	10 mg/m3 (TWA)	1995	ZA REL
(Particulate.)		, ,		
Ethanediol	107-21-1	60 mg/m3 (TWA)	1995	ZA REL
(Vapor.)				
Ethanediol	107-21-1	10 ppm (TWA)		OES BCS*
(Vapor.)				
Ethanediol	107-21-1	10 mg/m3 (TWA)		OES BCS*
(Aerosol.)		. ,		

^{*}OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

8.2 Exposure controls

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. 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 Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which



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the product is used, such as the danger of cuts, abrasion, and the

contact time.

Wash gloves when contaminated. 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.

Material Nitrile rubber

Rate of permeability > 480 min
Glove thickness > 0,4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

Eye protection Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection complete suit protecting against chemicals

Wear standard coveralls and Category 3 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form suspension

Colour white

Odour weak, characteristic

pH 7,0 - 10,0 at 100 % (23 ℃)

Flash point $> 100 \, ^{\circ}$

No flash point - Determination conducted up to the boiling point.

Density ca. 1,09 g/cm³ at 20 ℃

Water solubility miscible

Partition coefficient:

Pencycuron: log Pow: 4,68 at 20 ℃

n-octanol/water

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 hazardous reactions

No hazardous reactions when stored and handled according to

prescribed instructions.

No hazardous reactions when stored and handled according to

prescribed instructions.



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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

LD50 (Rat) > 5.000 mg/kg Acute oral toxicity Acute inhalation toxicity LC50 (Rat) > 0.519 mg/l

Exposure time: 4 h

Determined in the form of a respirable aerosol.

Highest attainable concentration.

Acute dermal toxicity LD50 (Rat) > 5.000 mg/kgSkin irritation No skin irritation (Rabbit) Eye irritation No eye irritation (Rabbit) Sensitisation

Non-sensitizing. (Guinea pig)

OECD Test Guideline 406, Buehler test

Assessment STOT Specific target organ toxicity - repeated exposure

Pencycuron did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

Pencycuron was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Pencycuron was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction

Pencycuron caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Pencycuron is related to parental toxicity.

Assessment developmental toxicity

Pencycuron did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) > 420 mg/l

Exposure time: 96 h

Toxicity to aquatic EC50 (Daphnia magna (Water flea)) > 3.2 mg/l

invertebrates Exposure time: 48 h

Chronic toxicity to aquatic

NOEC (Daphnia (water flea)): 0,0992 mg/l

invertebrates Exposure time: 21 d



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The value mentioned relates to the active ingredient pencycuron.

Toxicity to aquatic plants EC50 (Desmodesmus subspicatus (green algae)) > 1 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient pencycuron.

12.2 Persistence and degradability

Biodegradability Pencycuron:

Not rapidly biodegradable

Koc Pencycuron: Koc: 5667

12.3 Bioaccumulative potential

Bioaccumulation Pencycuron: Bioconcentration factor (BCF) 226

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Pencycuron: Immobile in soil

12.5 Results of PBT and vPvB assessment

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

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

very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

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.

SECTION 14: TRANSPORT INFORMATION

SANS 10231

14.1 UN number **3082**

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PENCYCURON SOLUTION)

14.3 Transport hazard class(es)

9 III

14.4 Packing group
14.5 Environm. Hazardous Mark

YES

IMDG

14.1 UN number 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

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(PENCYCURON SOLUTION)

14.3 Transport hazard class(es)

14.4 Packing group14.5 Marine pollutant

III YES



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IATA

14.1 UN number **3082**

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PENCYCURON SOLUTION)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environm. Hazardous Mark
YES

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 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

Further information

WHO-classification: III (Slightly hazardous)

SECTION 16: OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.

H331 Toxic if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic 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

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

Conc. Concentration

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

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



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

Chemicals in Bulk (IBC Code)

ICx Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

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

TWA Time weighted average

UN United Nations

WHO World health organisation

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 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 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.