

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

**WARNINGS:**

**TOBACCO: ALLOW 14 DAYS BETWEEN LAST APPLICATION AND HARVEST**

**NOTE:** The recommended withholding period between the last application and harvest meets local residue requirements but may not meet export requirements. If the treated crop is intended for the export market, consult the relevant exporting body before application of the product, regarding pre-harvest interval requirements.

- **DO NOT** apply more than 2 sprays per season.
- Harmful if inhaled.
- May cause an allergic skin reaction.
- Very toxic to aquatic life with long lasting effects.
- Store in a cool place away from food and feedstuffs.
- Keep out of reach of children, uninformed persons and animals.
- **RE-ENTRY: DO NOT** enter treated area until spray deposit has dried unless wearing protective clothing.

**PRECAUTIONS:**

- **DO NOT** inhale fumes or spray mist.
- Wear rubber gloves, overall and eye protection.
- Avoid contact with skin, eyes and clothing.
- Wash contaminated clothing daily.
- Wash hands immediately after work, if necessary take a shower.
- Wash immediately with soap and water after accidental skin contact.
- **DO NOT** eat, drink or smoke whilst mixing and applying or before washing hands and face.
- Prevent contamination of food, feeds, eating utensils and drinking water.
- Prevent drift onto other edible crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator thoroughly (triple rinsing) before re-using with other material. Dispose of wash water where it will not contaminate food, grazing or water.

**EMPTY CONTAINER DISPOSAL:**

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

**FIRST AID:**

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

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

**Skin contact:** Wash off immediately with soap and plenty of water. 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. Get medical attention if irritation develops and persists.

**Ingestion:** Rinse mouth. **DO NOT** induce vomiting. Call a physician or poison control center immediately.

**Most important symptoms and effects, both acute and delayed**

**Symptoms:** May cause an allergic skin reaction.

**TREATMENT BY DOCTOR:**

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. There is no specific antidote.

Packed For: Bayer Zimbabwe (Pvt) Ltd  
P.O. Box AY 78, Amby, Harare, Zimbabwe.  
Tel. 487211/487242

IN CASE OF POISONING PLEASE PHONE: +27(0) 861 555 777

Manufactured by Bayer AG

Sivanto® is a registered trademark of Bayer AG, Germany.

Batch No.: See on pack

Date of Manufacture: See on pack

Zim/0220/Sivanto Prime 1L/Label Booklet  
Code: ZW86282534A

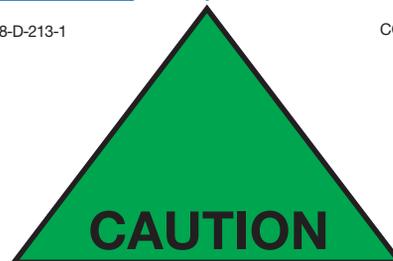


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Reg. No. 18-D-213-1

CONTENTS: 1L



**CAUTION  
HARMFUL IF SWALLOWED**

**COMPOSITION:**

	MASS/VOL
Flupyradifurone (Butenolide).....	200 g/l
Inert ingredients .....	800 g/l

Chemical Group: Butenolide

**SIVANTO PRIME A SYSTEMIC AND TRANSLAMINAR  
SOLUBLE CONCENTRATE INSECTICIDE FOR THE  
CONTROL OF APHIDS ON TOBACCO.**

Bayer



CAUTION



FRONT

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

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**RESISTANCE MANAGEMENT:**

For resistance management, **Sivanto Prime** is a group code 4D insecticide. Any insect population may contain individuals naturally resistant to **Sivanto Prime** and other group code 4D insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **Sivanto Prime** or any other group code 4D insecticides.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate with registered products from different insecticide group codes. DO NOT apply more than two times per season.
- Integrate other control methods (chemical, cultural, biological) into insect control programs.

**For specific information on resistance management contact the registration holder of this product.**

**DIRECTIONS FOR USE:** USE ONLY AS DIRECTED

For withholding periods that has to be allowed between application and harvest refer to "**WARNINGS**" above.

**MIXING AND SPRAYING INSTRUCTIONS:**

Ensure that application equipment is clean and not contaminated with other chemicals.

Half-fill the spray tank with clean water. Add the required quantity of **Sivanto Prime** to the water in the spray tank and stir well. Apply in sufficient water to ensure good coverage and adjust the water volume according to the crop growth stage.

**APPLICATION TABLE:**

CROP	APPLICATION RATE PER HECTARE	REMARKS
<b>TOBACCO</b> Tobacco aphid ( <i>Myzus P. Nicotianae</i> )	200 ml/100 litres water	Scout for aphids once every week starting at 4 weeks after planting until topping. Apply <b>Sivanto Prime</b> as soon as aphids are noticed.

**WARRANTY:**

**ALTHOUGH THIS REMEDY HAS BEEN EXTENSIVELY TESTED UNDER A LARGE VARIETY OF CONDITIONS, THE REGISTRATION HOLDER DOES NOT WARRANTY THAT IT WILL BE EFFICACIOUS UNDER ALL CONDITIONS BECAUSE THE ACTION AND EFFECT THEREOF MAY BE AFFECTED BY FACTORS SUCH AS ABNORMAL SOIL, CLIMATIC AND STORAGE CONDITIONS, QUALITY OF DILUTION WATER, COMPATIBILITY WITH OTHER SUBSTANCES NOT INDICATED ON THE LABEL AND THE OCCURRENCE OF RESISTANCE OF THE PESTS TO 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 FAILURE OF THE USER TO FOLLOW THE LABEL INSTRUCTIONS OR 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.**

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**Bayer**



## BYI 02960 SL200 SAMPLE WW

Version 2 / EU  
1020000218841/9  
Revision Date: 13.01.2014  
Print Date: 14.01.2014

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

#### 1.1 Product identifier

Trade name BYI 02960 SL200 SAMPLE WW  
Product code (UVP) 79718845

#### 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 AG  
Alfred-Nobel-Straße 50  
40789 Monheim am Rhein  
Germany

Telefax +49(0)2173-38-7394

Responsible Department Product Safety and Specification Management  
+49(0)2173-38-3409/3685 (during business hours only)  
Email: BCS-SDS@bayer.com

#### 1.4 Emergency telephone no.

Emergency telephone no. Global Incident Response Hotline  
+1 (760) 476-3964 (Company 3E for Bayer CropScience)

### 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.**

Acute toxicity: Category 4  
H332 Harmful if inhaled.

Skin sensitisation: Category 1  
H317 May cause an allergic skin reaction.

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.

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Xn Harmful, R20  
R43  
N Dangerous for the environment, R50/53

#### 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:**

- Flupyradifurone



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**BYI 02960 SL200 SAMPLE WW**Version 2 / EU  
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H332 Harmful if inhaled.  
 H317 May cause an allergic skin reaction.  
 H410 Very toxic to aquatic life with long lasting effects.  
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
 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**Soluble concentrate (SL)  
Flupyradifurone 200 g/l**Hazardous components**R-phrases according to EC directive 67/548/EEC  
Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / EC-No.	Classification		Conc. [%]
		EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Flupyradifurone	951659-40-8	Xn; R22 N; R50/53	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	17,10
Propylene carbonate	108-32-7 203-572-1	Xi; R36	Eye Irrit. 2, H319	> 20,00

**Further information**

Flupyradifurone	951659-40-8	M-Factor: 10 (acute)
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For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

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**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

<b>General advice</b>	Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.
<b>Inhalation</b>	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

**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. 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. There is no specific antidote.

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**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

**Suitable** Water spray, Carbon dioxide (CO<sub>2</sub>), 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), Hydrogen fluoride, Carbon monoxide (CO), Nitrogen oxides (NO<sub>x</sub>)

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

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**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.

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**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. 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.

**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).

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers** Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Protect from frost. Keep away from direct sunlight.

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

**Suitable materials** HDPE (high density polyethylene)

**7.3 Specific end uses** Refer to the label and/or leaflet.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

No control parameters known.

**8.2 Exposure controls****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. 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

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	always before eating, drinking, smoking or using the toilet.
<b>Eye protection</b>	Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).
<b>Skin and body protection</b>	Wear standard coveralls and Category 3 Type 4 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. 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.
<b>General protective measures</b>	If product is handled while not enclosed, and if contact may occur: Complete suit protecting against chemicals

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Form</b>	Liquid, clear
<b>Colour</b>	yellow to brown
<b>Odour</b>	characteristic
<b>pH</b>	5,0 - 7,0 at 1 % (23 °C) (deionized water)
<b>Flash point</b>	> 100 °C
<b>Ignition temperature</b>	420 °C
<b>Density</b>	ca. 1,17 g/cm <sup>3</sup> at 20 °C
<b>Water solubility</b>	soluble
<b>Partition coefficient: n-octanol/water</b>	Flupyradifurone: log Pow: 1,2
<b>Oxidizing properties</b>	No oxidizing properties
<b>Explosivity</b>	Not explosive 92/69/EEC, A.14 / OECD 113

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

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**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.

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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.

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**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

- Acute oral toxicity** LD50 (rat) > 2.000 mg/kg
- Acute inhalation toxicity** LC50 (rat) ca. 3,496 mg/l  
Exposure time: 4 h  
Determined in the form of a respirable aerosol.
- Acute dermal toxicity** LD50 (rat) > 2.000 mg/kg
- Skin irritation** No skin irritation (rabbit)
- Eye irritation** No eye irritation (rabbit)
- Sensitisation** Sensitising (mouse)  
OECD Test Guideline 429, local lymph node assay (LLNA)

**Assessment repeated dose toxicity**

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

**Assessment Mutagenicity**

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

**Assessment Carcinogenicity**

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

**Assessment toxicity to reproduction**

Flupyradifurone did not cause reproductive toxicity in a two-generation study in rats.

**Assessment developmental toxicity**

Flupyradifurone did not cause developmental toxicity in rats and rabbits.

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**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

- Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) > 100 mg/l  
Exposure time: 96 h
- Toxicity to aquatic invertebrates** EC50 (Water flea (Daphnia magna)) 684 mg/l  
Exposure time: 48 h
- EC50 (Chironomus riparius (non-biting midge)) 0,161 mg/l  
Exposure time: 28 d
- Toxicity to aquatic plants** IC50 (Pseudokirchneriella subcapitata) > 250 mg/l  
Growth rate; Exposure time: 72 h

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not rapidly biodegradable**Koc** Flupyradifurone: Koc: 93**12.3 Bioaccumulative potential****Bioaccumulation** Flupyradifurone:  
Does not bioaccumulate.**12.4 Mobility in soil****Mobility in soil** Flupyradifurone: Moderately mobile in soils**12.5 Results of PBT and vPvB assessment****PBT and vPvB assessment** Flupyradifurone: 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.**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**SECTION 14: TRANSPORT INFORMATION****ADR/RID/ADN**

14.1 UN number	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUPYRADIFURONE SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES
Hazard no.	90
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**

14.1 UN number	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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(FLUPYRADIFURONE SOLUTION)  
14.3 Transport hazard class(es) 9  
14.4 Packing group III  
14.5 Marine pollutant YES

**IATA**

14.1 UN number **3082**  
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(FLUPYRADIFURONE SOLUTION )  
14.3 Transport hazard class(es) 9  
14.4 Packing group III  
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 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****Further information**

WHO-classification: III (Slightly hazardous)

**15.2 Chemical Safety Assessment**

A chemical safety assessment is not required.

**SECTION 16: OTHER INFORMATION****Text of R-phrases mentioned in Section 3**

R22 Harmful if swallowed.  
R36 Irritating to eyes.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Text of the hazard statements mentioned in Section 3**

H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

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 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.

**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
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versions.