



## SOLFAC AUTOMATIC FORTE

Version 3 / D  
102000025282

1/12  
Revision Date: 07.04.2015  
Print Date: 15.01.2016

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

#### 1.1 Product identifier

Trade name SOLFAC AUTOMATIC FORTE  
Product code (UVP) 80187270

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

Use Household 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 (during business hours only)  
Email: BCS-SDS@bayer.com

Sales Agency Bayer CropScience Deutschland GmbH  
Elisabeth-Selbert-Straße 4a  
D-40764 Langenfeld  
Germany  
Telephone: 02173 / 20760

#### 1.4 Emergency telephone no.

Emergency telephone no. +49(0)2133-51-99300 (Sicherheitszentrale Dormagen)

### 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 aerosols: Category 1  
H222 Extremely flammable aerosol.

Eye irritation: Category 2  
H319 Causes serious eye irritation.

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

F+ Extremely flammable, R12  
N Dangerous for the environment, R50/53  
R66

#### 2.2 Label elements

Labelling according to German national legislation:

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Hazard label for supply/use required.

**Hazardous components which must be listed on the label:**

- Cyfluthrin

**Signal word:** Danger**Hazard statements**

H222 Extremely flammable aerosol.  
 H229 Pressurized container: May burst if heated.  
 H319 Causes serious eye irritation.  
 H410 Very toxic to aquatic life with long lasting effects.  
 EUH066 Repeated exposure may cause skin dryness or cracking.  
 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.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P260 Do not breathe spray.  
 P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 + P338  
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
 P501 Dispose of contents/container in accordance with local regulation.

**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**

Aerosol dispenser (AE)  
 Cyfluthrin 0,1%

**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	
Cyfluthrin	68359-37-5 269-855-7	T+; R28 T; R23 N; R50/53	Acute Tox. 3, H331 Acute Tox. 2, H300 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	0,1

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Propan-2-ol	67-63-0 200-661-7	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	> 10 – < 15
Naphtha (petroleum), hydrotreated heavy	64742-48-9 265-150-3	Xn; R65 R66	Asp. Tox. 1, H304	> 20
Propane	74-98-6 200-827-9	F+; R12	Press. Gas Flam. Gas 1, H220	> 1
Butane	106-97-8 203-448-7	F+; R12	Press. Gas Flam. Gas 1, H220	> 1
Isobutane	75-28-5 200-857-2	F+; R12	Press. Gas Flam. Gas 1, H220	> 1

**Further information**

Cyfluthrin	68359-37-5	M-Factor: 1.000 (acute), 1.000 (chronic)
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For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

**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 in case of accidental inhalation of vapours or decomposition products. Oxygen or artificial respiration if needed. Call a physician or poison control center immediately.
<b>Skin contact</b>	Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. 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.
<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. 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.
<b>Ingestion</b>	Call a physician or poison control center immediately. Do NOT induce vomiting. Risk of product entering the lungs on vomiting after ingestion. Rinse mouth.

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

<b>Symptoms</b>	Local:, Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours, Skin, eye and mucous membrane irritation, Cough, Sneezing
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Systemic: Discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy, Gastro-intestinal irritation, Headache

Symptoms and hazards refer to effects observed after intake of significant amounts of the active ingredient(s).

Aspiration may cause pulmonary oedema and pneumonitis.

Inhalation may provoke the following symptoms: Cough, Shortness of breath, Cyanosis, Fever

Symptoms and hazards refer to the solvent.

**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. Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.

**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. In case of aspiration intubation and bronchial lavage should be considered. Monitor: kidney, liver and pancreas function.

**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. Do not allow run-off from fire fighting to enter drains or water courses.

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**Precautions** Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition. 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 up** 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** No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Use only in area provided with appropriate exhaust ventilation.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition. Fire or intense heat may cause violent rupture of packages. Take measures to prevent the build up of electrostatic charge. The product is extremely flammable.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. 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** BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. 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.

**German storage class** 2B

**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
Cyfluthrin	68359-37-5	0,01 mg/m <sup>3</sup>	2011	DFG MAK

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(Inhalable fraction.)		(MAK)		
Cyfluthrin (Inhalable fraction.)	68359-37-5	0,01 mg/m <sup>3</sup> (AGW)	01 2012	TRGS 900
Cyfluthrin	68359-37-5	0,01 mg/m <sup>3</sup> (TWA)		OES BCS*
Propan-2-ol	67-63-0	500 mg/m <sup>3</sup> /200 ppm (MAK)	2011	DFG MAK
Propan-2-ol	67-63-0	500 mg/m <sup>3</sup> /200 ppm (AGW)	01 2012	TRGS 900
Propan-2-ol	67-63-0	200 ppm (SK-ABS)		OES BCS*
Naphtha (petroleum), hydrotreated heavy	64742-48-9	300 mg/m <sup>3</sup> /50 ppm (MAK)	2011	DFG MAK
Propane	74-98-6	1.800 mg/m <sup>3</sup> /1.000 ppm (MAK)	2011	DFG MAK
Propane	74-98-6	1.800 mg/m <sup>3</sup> /1.000 ppm (AGW)	01 2012	TRGS 900
Butane	106-97-8	2.400 mg/m <sup>3</sup> /1.000 ppm (MAK)	2011	DFG MAK
Butane	106-97-8	2.400 mg/m <sup>3</sup> /1.000 ppm (AGW)	01 2012	TRGS 900
Isobutane	75-28-5	2.400 mg/m <sup>3</sup> /1.000 ppm (MAK)	2011	DFG MAK
Isobutane	75-28-5	2.400 mg/m <sup>3</sup> /1.000 ppm (AGW)	01 2012	TRGS 900

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

**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**

Personal protective equipment is not normally required when using the aerosol. However, if there is a risk of uncontrolled exposure to the contents, the following should be considered.

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**

Personal protective equipment is not normally required when using the aerosol. However, if there is a risk of uncontrolled exposure to the contents, the following should be considered.

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**

Personal protective equipment is not normally required when using the aerosol. However, if there is a risk of uncontrolled exposure to

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	the contents, the following should be considered. Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).
<b>Skin and body protection</b>	Personal protective equipment is not normally required when using the aerosol. However, if there is a risk of uncontrolled exposure to the contents, the following should be considered. 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.

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

<b>Form</b>	aerosol
<b>Density</b>	ca. 0,56 g/cm <sup>3</sup> at 20 °C
<b>Partition coefficient: n-octanol/water</b>	Cyfluthrin: log Pow: 5,9 - 6,0 at 20 °C

**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.**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** ATE (rat) > 2.000 mg/kg  
Calculation method  
ATE – acute toxicity estimate**Acute inhalation toxicity** ATE (rat) > 5,0 mg/l  
Exposure time: 4 h  
Calculation method  
ATE – acute toxicity estimate**Acute dermal toxicity** ATE (rat) > 2.000 mg/kg  
Calculation method



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	ATE – acute toxicity estimate
<b>Skin irritation</b>	No skin irritation (rabbit) The value mentioned relates to the active ingredient cyfluthrin.
<b>Eye irritation</b>	Irritating to eyes. (rabbit) The value mentioned relates to the solvent isopropanol.
<b>Sensitisation</b>	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test The value mentioned relates to the active ingredient cyfluthrin.

**Assessment repeated dose toxicity**

The toxic effects of Cyfluthrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

**Assessment mutagenicity**

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

**Assessment carcinogenicity**

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

**Assessment toxicity to reproduction**

Cyfluthrin 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 Cyfluthrin is related to parental toxicity.

**Assessment developmental toxicity**

Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Cyfluthrin 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**

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 0,00047 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 0,00016 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient.
<b>Toxicity to aquatic plants</b>	IC50 (Desmodismus subspicatus) > 10 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient.

**12.2 Persistence and degradability**

**Biodegradability** Cyfluthrin:  
not rapidly biodegradable

**Koc** Cyfluthrin: Koc: 64300

**12.3 Bioaccumulative potential**

**Bioaccumulation** Cyfluthrin: Bioconcentration factor (BCF) 506  
Does not bioaccumulate.



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Not completely emptied packagings should be disposed of as hazardous waste.  
Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.  
Completely emptied containers to be taken to the cost-free collection system (Green Dot). Packagings possibly contaminated with product remains to be taken to a collection point for disposal of household chemicals.**Waste key for the unused product** **160504** gases in pressure containers (including halons) containing dangerous substances**SECTION 14: TRANSPORT INFORMATION****ADR/RID/ADN**

14.1 UN number	<b>1950</b>
14.2 Proper shipping name	AEROSOLS
14.3 Transport hazard class(es)	2.1
14.4 Packing group	NOT APPLICABLE.
14.5 Environm. Hazardous Mark	YES
Hazard no.	NOT APPLICABLE.
Tunnel Code	D

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>1950</b>
14.2 Proper shipping name	AEROSOLS (CYFLUTHRIN)
14.3 Transport hazard class(es)	2.1
14.4 Packing group	NOT APPLICABLE.
14.5 Marine pollutant	YES



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### IATA

14.1 UN number	1950
14.2 Proper shipping name	AEROSOLS, FLAMMABLE
14.3 Transport hazard class(es)	2.1
14.4 Packing group	NOT APPLICABLE.
14.5 Environm. Hazardous Mark	NO

### 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.

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## 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)

Registration number N-45012

**Water contaminating class (Germany)** WGK 2 water endangering

**Major Accident Hazard Legislation** Subjected to the "Disasters and Major Accidents Act".  
Annex I, list of dangerous substances, No. 8, 9a

#### Other regulations

TRG 300/FRG Special requirements for gas pressure vessels (TRG: Technical rules pressurized gases)  
TRGS 510 Storage of hazardous substances in movable containers  
BG Data Sheet M 004 "Irritant substances / Corrosive substances"  
BG Data Sheet M 017 "Solvents"  
BG Data Sheet M 040 "Hydrogen Chlorides"  
BG Data Sheet M 050 "Handling of Hazardous Substances"  
BG Data Sheet M 053 "General Protective Measures for the handling of hazardous substances"

### 15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

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## SECTION 16: OTHER INFORMATION

### Text of R-phrases mentioned in Section 3

R11	Highly flammable.
R12	Extremely flammable.
R23	Toxic by inhalation.
R28	Very toxic if swallowed.
R36	Irritating to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

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



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H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

For further information on active ingredients see also: Wirkstoffe in Pflanzenschutz- und Schädlingsbekämpfungsmitteln: physikalisch-chemische und toxikologische Daten IVA, Industrieverb. Agrar e.V. - 3., neubearb. Aufl. - München; Wien; Zürich; BLV Verl.-Ges.mbH, 2000 ISBN 3-405-15809-5.

### 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
ECx	Effective concentration to x %
EC-No.	European community number
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)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
Conc.	Concentration
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	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
TA Luft	Technical instructions on Air Quality Control
TRGS	Technical rules for hazardous substances
TWA	Time weighted average
UN	United Nations
VwVwS	German legislation on water endangering substances
WGK	Water hazard class
WHO	World health organisation



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This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. 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.

Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients. Section 12. Ecological information.

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