

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

PRECAUTIONS:

1. **Handle with care;** Avoid splashing/contact, poisonous by swallowing, inhalation and contact with the skin.
2. **Wear protective clothing,** i.e. rubber gloves, overall and gumboots.
3. **Do not eat, drink or smoke** whilst handling or applying **Twist 500 SC.**
4. **Very toxic to aquatic organisms and wild life.**
5. **Do not contaminate drinking pools, dams, rivers and waterways.**
6. **KEEP OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.**
7. **KEEP APART FROM FOOD AND FOODSTUFFS.**
8. Store in original container, in a cool dry place **and keep under lock and key.**
9. Do not inhale spray mist and avoid drift onto adjacent crops, grazing, rivers, dams and boreholes.
10. Rinse empty container three times and add the rinse water to the contents of the tank before disposing of the container.
11. Wash hands with soap and water including contaminated clothing after spraying.
12. Destroy empty container by perforation and flattening and never use for any other purpose. Bury or burn and bury the ashes in the safe prescribed manner.
13. **Re-entry:** Do not enter treated area until spray deposit has dried unless you are wearing protective clothing.

SYMPTOMS OF POISONING:

No known case of human poisoning.

FIRST AID TREATMENT:

1. Remove patient from source of poisoning to a well-ventilated area and keep him/her quiet and reassured.
2. Remove contaminated clothing and wash contaminated body area thoroughly with plenty of soap and water.
3. If eyes are contaminated, 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 the eyes. Get medical attention if irritation develops and persists. In case of skin contact - wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water.
4. If swallowed - DO NOT induce vomiting. Call a physician or poison control centre immediately. Rinse mouth.
5. Seek medical attention and show this label to attending doctor.

NOTE TO PHYSICIAN:

There is no known specific antidote. Treat symptomatically - gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.

WARRANTY: Although this remedy has been extensively 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 of the pathogen 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 animal 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.

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, Germany
Twist® is a registered trademark of the Bayer Group.

Batch No.: See on pack
Date of Manufacture: See on pack

Bayer

Zim/0118/Twist 500 SC 1L/Label Booklet
Code: 84911119B



TWIST® 500 SC



Reg. No. 08-B-72-2

CONTENTS: 1L



**DANGER
POISON**

COMPOSITION:

| | MASS/VOLUME |
|-------------------------|--------------------|
| Trifloxystrobin..... | 500 g/l |
| Inert ingredients | 500 g/l |

Chemical Group : Strobilurin

**A SUSPENSION CONCENTRATE FUNGICIDE WITH MESOSTEMIC
PROPERTIES FOR THE CONTROL OF POWDERY MILDEW ON
ROSES & PAPRIKA, RUST ON FINE BEANS AND
HYPERICUM AND ALTERNARIA ON
TOBACCO.**



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3. If eyes are contaminated, 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 the eyes. Get medical attention if irritation develops and persists. In case of skin contact - wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water.
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WARNING: - Resistance management:

For resistance management, apply a maximum of three sprays per season and rotate with fungicides from a different chemical group.

MODE OF ACTION:

Twist 500 SC is a suspension concentrate for the control of a wide range of diseases. **Twist 500 SC** is a fungicide of the chemical group, strobilurins. It has mesostemic activity characterized by a high affinity of the plant surface, distribution by superficial vapour movement and re-deposition onto the plant surface, penetration of plant tissue and translaminar movement. **Twist 500 SC** is particularly active on the plant surface by the inhibition of spore germination and growth of mycelium and also inhibits pathogen development such as haustoria's formation, thereby preventing infection from taking place.

PREPARING MIXTURE:

Make sure that application equipment is clean and not contaminated. Do not pre-mix for more than a day's work.

If **Twist 500 SC** is tank mixed with other products, it should be mixed first followed by other products. Half fill the spray tank with clean water, start agitation, add the calculated and measured quantity of product and continue to fill the spray tank while agitating.

Knapsack - half fill the sprayer with clean water and add the calculated measured quantity of product, close the knapsack lid and shake well for a short time and continue to fill the sprayer with clean water.

NB. Ensure thorough agitation of the mixture in the bulk tank during mixing and spraying.

DIRECTIONS FOR USE: Use only as directed

| CROPS | DISEASE | DOSAGE | REMARKS |
|--|---|----------------------|---|
| Roses | Powdery mildew | 25-50 ml/100 ℓ water | Apply as a high volume spray. Repeat at 10-14 day intervals. Apply as a preventative treatment or when first signs of the infection are noticed. |
| Fine beans | Rust | 250-500 ml/ha | Apply as a preventative treatment or as soon as first signs of infection are noticed. Apply as a full cover spray in 400-500 ℓ water/ha. Repeat after every 10-14 days if necessary. |
| Paprika | Powdery mildew | 25-50 ml/100 ℓ water | Apply as a high volume spray. Repeat at 10-14 day intervals. Apply as a preventative treatment or when first signs of the infection are noticed. |
| Hypericums | Rust | 25-50 ml/100 ℓ water | Apply as a high volume spray. Repeat at 10-14 day intervals. Apply as a preventative treatment or when first signs of the infection are noticed. |
| Tobacco Seedbed TRB Certificate No. 18-21-B-21 | Alternaria (<i>Alternaria alternata</i>) | 200 ml/10 ℓ water | Apply high volume sprays commencing 4 weeks after emergence at weekly intervals. NB. Ensure a maximum application of three consecutive sprays of Twist followed by three sprays of a registered contact fungicide such as Antracol 70 WP to reduce disease resistance development. Volume of application / 100 m ² : Sprays 1 - 2 = 2 litres Sprays 3 - 4 = 4 litres Sprays 5 - 6 = 6 litres |

COMPATIBILITY:

The compatibility of **Twist 500 SC** with other products may be influenced by the formulation of the other products as well as the quality of water. A physical compatibility test should be carried out prior to application. **Twist 500 SC** has been tested and found to be compatible with **Decis Forte** and **Melody Duo 69 WG**.

Decis® and **Melody®** are registered trademarks of the Bayer Group.

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

1.1 Product identifier

Trade name TWIST SC500
Product code (UVP) 05671213

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 CropScience)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

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:

- Trifloxystrobin



Signal word: Warning

Hazard statements



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- H410 Very toxic to aquatic life with long lasting effects.
 EUH208 Contains Trifloxystrobin, 1,2-benzisothiazolin-3-one, 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one. May produce an allergic reaction.
 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.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 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)
Trifloxystrobin, 500 g/l

Hazardous components

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

| Name | CAS-No. / EC-No. / REACH Reg. No. | Classification | Conc. [%] |
|--|---|---|------------------------|
| | | Regulation (EC) No 1272/2008 | |
| Trifloxystrobin | 141517-21-7 | Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | 43,7 |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 | 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-chloro-2-methyl-4-isothiazolin-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 Sens. 1, H317 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | > 0,0002 – < 0,0015 |

Further information

| | | |
|-----------------|-------------|-----------------------|
| Trifloxystrobin | 141517-21-7 | M-Factor: 100 (acute) |
|-----------------|-------------|-----------------------|

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



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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|-----------------------|--|
| General advice | Remove contaminated clothing immediately and dispose of safely. Move out of dangerous area. Place and transport victim in stable position (lying sideways). |
| 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. |
| 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. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. There is no specific antidote.

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 In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NO_x), Hydrogen fluoride

5.3 Advice for firefighters

| | |
|--|--|
| Special protective equipment for firefighters | In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes. |
| 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.

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- 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** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.
- 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.
- Advice on protection against fire and explosion** No special precautions required.
- 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** Store in a place accessible by authorized persons only. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Protect from frost.
- Advice on common storage** Keep away from food, drink and animal feedingstuffs.
- Suitable materials** HDPE (high density polyethylene)
- 7.3 Specific end use(s)** Refer to the label and/or leaflet.

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

| Components | CAS-No. | Control parameters | Update | Basis |
|-----------------|-------------|-----------------------------------|--------|----------|
| Trifloxystrobin | 141517-21-7 | 2,7 mg/m ³ (SK-SEN) | | OES BCS* |

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

8.2 Exposure controls

- 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.

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| | |
|---------------------------------|---|
| 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. |

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

| | |
|---|--|
| Form | suspension |
| Colour | white to beige |
| Odour | weak, characteristic |
| pH | 6,0 - 8,5 at 100 % (23 °C) |
| Flash point | > 100 °C |
| Density | ca. 1,14 g/cm ³ at 20 °C |
| Water solubility | miscible |
| Partition coefficient: n-octanol/water | Trifloxystrobin: log Pow: 4,5 at 25 °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** LD50 (Rat) > 3.000 mg/kg

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| | |
|----------------------------------|--|
| | Test conducted with a similar formulation. |
| Acute inhalation toxicity | LC50 (Rat) > 1,994 mg/l Exposure time: 4 h Test conducted with a similar formulation. |
| Acute dermal toxicity | LD50 (Rat) > 4.000 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 | No eye irritation (Rabbit) Test conducted with a similar formulation. |
| Sensitisation | Non-sensitizing. (Guinea pig) OECD Test Guideline 406, Magnusson & Kligman test Test conducted with a similar formulation. |

Assessment repeated dose toxicity

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

Assessment mutagenicity

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

Assessment carcinogenicity

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

Assessment toxicity to reproduction

Trifloxystrobin 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 Trifloxystrobin is related to parental toxicity.

Assessment developmental toxicity

Trifloxystrobin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Trifloxystrobin are related to maternal toxicity.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

| | |
|--|---|
| Toxicity to fish | LC50 (Oncorhynchus mykiss (rainbow trout)) 0,035 mg/l Exposure time: 96 h |
| Toxicity to aquatic invertebrates | EC50 (Daphnia magna (Water flea)) 0,087 mg/l Exposure time: 48 h |
| Toxicity to aquatic plants | EC50 (Raphidocelis subcapitata (freshwater green alga)) 0,034 mg/l Exposure time: 72 h |

12.2 Persistence and degradability

Biodegradability Trifloxystrobin:
Not rapidly biodegradable

Koc Trifloxystrobin: Koc: 2377

12.3 Bioaccumulative potential

Bioaccumulation Trifloxystrobin: Bioconcentration factor (BCF) 431
Does not bioaccumulate.



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12.4 Mobility in soil

Mobility in soil Trifloxystrobin: Slightly mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Trifloxystrobin: 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.

SECTION 14: TRANSPORT INFORMATION

SANS 10231

14.1 UN number **3082**
14.2 Proper shipping name **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLOXYSTROBIN SOLUTION)**
14.3 Transport hazard class(es) **9**
14.4 Packing group **III**
14.5 Environm. Hazardous Mark **YES**

IMDG

14.1 UN number **3082**
14.2 Proper shipping name **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLOXYSTROBIN 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. (TRIFLOXYSTROBIN 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.

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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. |
| 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 (ATE) |
| 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 |
| 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 | 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 |



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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.

Reason for Revision: Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients.

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