

# BASF

# Regent® 200 SC

Reg. No. 94-D-155-2

CONTENTS: 1 Litre



## COMPOSITION:

fipronil ..... 200 g/l  
 inert ingredients ..... 850 g/l  
 Specific gravity 1,05 g/ml  
 Chemical group: Phenyl Pyrazol

Mass/Vol.

**A SUSPENSION CONCENTRATE INSECTICIDE FOR THE CONTROL OF TERMITES IN COTTON, EUCALYPTUS, MAIZE, SUGARCANE, TEA, TOBACCO; SNOUT BEETLES IN MAIZE; THRIPS IN CITRUS AND ORNAMENTALS; DIAMOND BACK MOTH IN BRASSICAS; WHITE BORER IN COFFEE.**

## 1 Litre

Registered by:  
 Pivotal Agro-Services (Pvt) Ltd, P.O. Box UA 414,  
 Union Avenue, Harare, Zimbabwe. Tel. 310 162-4, Fax 331168.

Manufactured by:  
 BASF Agro B.V. Arnhem (NL) Wädenswil Branch,  
 P.O. Box 69, Steinacherstrasse 101,  
 CH-8820 Wädenswil/Au, Switzerland

® Registered Trade mark of BASF

12345 6/ZW 0073

REGENT 200 SC is a contact and stomach insecticide with prolonged residual activity against termites.

### DIRECTIONS FOR USE: USE ONLY AS DIRECTED

MIXING: Add the required amount of REGENT 200 SC direct into the partly filled mixing tank. Complete filling with water. Agitator should be kept in motion during this process. It is advised that large quantities are prepared at one time in order to avoid continuous handling of the concentrate.

CROP	PEST	RATE OF APPLICATION	APPLICATION DIRECTIONS						
BRASSICAS	Diamond Back Moth	25 ml product/100 l water	Apply as full cover spray in 250 l water/ha						
CITRUS Bearing trees N.B. See Warning Nursery trees and Non-bearing	Thrips	7.5 ml product/100 l water	Apply as a single light cover spray to wet the foliage canopy and fruit uniformly to the point of run-off. Apply at any time between 90-100% petal drop to just before calyx closure. If an outbreak occurs later in the season use a different insecticide and observe the necessary withholding period.						
		7.5 ml product/100 l water	Apply to new growth flush to control thrips damaging the leaves. Do not use more than four times in one year. If additional treatments are required for control, use a different insecticide to delay the possible development of resistance.						
COFFEE	White borer	80 ml/20 l water.	Stem band from base to 1 m up stem. Apply by knapsack/lance at approximately 100 ml/tree ensuring full stem cover. Apply prior to onset of main rains.						
COTTON	Termites	500 ml/ha banded	<i>Tractor mounted:</i> Spray over the seed in the furrow in a 150 mm band, just behind the seed distributor to ensure even seed and furrow cover. <i>Knapsack &amp; Lance:</i> Spray in a 150 mm band over the furrow and ensure that immediate covering of the seed is carried out. Use between 100 - 200 lt. Spray volume/ha. N.B. See compatibility.						
		500 ml/ha broadcast	Apply as an overall spray during land preparation in approximately 200 litres of spray volume and incorporate immediately to a depth of 100 mm.						
EUCALYPTUS	Termites	0.5 l/tree	Mix the required dose in a minimum of 400 ml water. Clean out the planting hole and spray the interior. Backfill with half the planting soil and drench. Plant seedlings and re-drench with the balance. Ensure that the base of the tree to 10 cm above ground level is wetted. Cover with dry soil.						
MAIZE	Snout Beetle	250 ml/ha banded	Apply in 200 mm band over the seed in the planting furrow to ensure even seed and furrow cover.						
	Termites	500 ml/ha banded	<i>Tractor mounted:</i> Spray over the seed in the furrow in a 150 mm band, just behind the seed distributor to ensure even seed and furrow cover. <i>Knapsack &amp; Lance:</i> Spray in a 150 mm band over the furrow and ensure that immediate covering of the seed is carried out.						
		750 ml/ha banded	Apply as an overall spray during land preparation in approximately 350 litres of spray volume and incorporate immediately to a depth of 100 mm.						
ORNAMENTALS	Thrips	25 ml product/100 l water	Apply as a full cover spray in 250-500 litres water/ha.						
SUGARCANE	Termites	500 ml/ha banded	Spray in a 150 mm band over the sets in the planting furrow and cover immediately. It is recommended that 500 ml of product be applied in 200 litres of spray volume/ha.						
TEA	Termites	0.05 ml/plant (0,694 l/ha- basis 13 888 plants 1 ha)	Mix the required dose in a minimum of 400 500 ml water. Apply half to the hole. Backfill and drench soil ensuring that the base of the plant 10 cm above ground level is wetted. Cover with dry soil.						
TOBACCO (TRB Cert. No. 582). Always consult TRB Handbook for detailed recommendations	Termites (Preventative treatment only) 1 litre/ha	LANDS AT PLANTING							
		litres planting water/planting hole	Premixed in planting water						
		Regent 200 SC: ml/ 1000 litre water (based on 15 000 plants/ha) Note: larger volumes of water per planting hole give an increased sphere of protection for plant roots.	<table border="1"> <tr> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>22</td> <td>17</td> <td>13</td> </tr> </table>	3	4	5	22	17	13
3	4	5							
22	17	13							

**Cup Application:** Mix 222 ml REGENT SC/100 litres water. Apply 30 ml cupful of this mixture into planting hole immediately hole has been filled with planting water. Try to promote mixing of cup contents with planting water in hole.

**WARNING CITRUS:** Remove all out-of-season fruit before application.

**Lemon Trees:** Remove all fruit, including immature fruit before application.

REGENT 200 SC is toxic to honeybees. Hives must be placed at least 100 m from any orchards where REGENT 200 SC is to be sprayed. During spraying, applications of REGENT 200 SC to orchards, beehives should be cleared or removed from the farm for at least 24 hours. At no time must the spray drift be allowed to contaminate the surroundings of beehives.

**COMPATIBILITY:** Although REGENT is compatible with a number of pesticides – do not mix with other chemicals unless your prior use has shown the combination to be physically compatible and noninjurious under your conditions of use. REGENT 200 SC has however been found to be compatible on cotton with quintero and can therefore be tank mixed, or applied to the furrow at the same time.

### SAFETY INSTRUCTIONS

Read the entire label before using the product and follow the instructions.

### PRECAUTIONS

- Handle with care, avoid contact with pesticide. Poisonous by contact and inhalation.
- WEAR PROTECTIVE CLOTHING, including rubber gloves, boots, overalls, face shield and mask, when handling and applying the product.
- Do not eat, drink or smoke when handling or applying the pesticide.
- DANGEROUS TO FISH AND BEES.
- KEEP OUT OF REACH OF CHILDREN AND FOOD AND STORE UNDER LOCK AND KEY.
- Destroy empty containers by emptying and making unusable by puncturing or crushing before appropriate disposal (burial or incineration). Do not use for any other purpose.
- Store in the original containers: tightly closed and in a cool dry place. Store away from flammable products.

- Prevent contamination of waterways by burying waste and washings to a minimum depth of 30 cm; this should be buried 50 m from any water source.
- In case of accidental leakage or spillage, stop the leakage and contain the spillage by absorption with sand, earth or spill control agent. The absorbed material should then be buried in a non crop area as for the containers, away from any water source.

### AFTER USE

Wash hands and exposed skin before eating, drinking or smoking. Change contaminated clothing daily and wash thoroughly before re-using.

### SYMPTOMS OF POISONING

This product is active on the nervous system and over exposure may lead to convulsions.

### FIRST AID

- Remove the patient from the source of poisoning and quickly remove any contaminated clothing.
- Call a doctor immediately - but continue with first aid treatment.
- In case of skin contact, wash with soap and water for at least 20 minutes.
- In case of eye contact, wash immediately with plenty of water and prolong for 20 minutes.
- If swallowed and patient is fully conscious, and not convulsing, induce vomiting by tickling the back of the throat.
- Keep the patient as quiet, warm and a comfortable as possible.

### NOTE TO PHYSICIAN

No specific antidote is known. Phenobarbital, but not Benzodiazepines has been shown experimentally to be active on convulsions induced by fipronil. Fipronil is a GABA receptor inhibitor. During intoxication, it will induce neurological stimulation with possible convulsions. Fipronil is slowly absorbed through the gut. Absorption may decrease by the use of gastric lavage, saline purgative and activated charcoal (possibly entero-hepatic recirculation).

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

**Date of Manufacture: Batch No.**

# Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 03.05.2010

Version: 2.0

Product: **REGENT 200 SC**

350 21 I

(30267152/SDS\_CPA\_EU/EN)

Date of print 04.05.2010

## 1. Identification of the substance/mixture and of the company/undertaking

### REGENT 200 SC

Use: crop protection product, insecticide

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Crop Protection

Telephone: +49 621 60-27777

Telefax number: +49 621 60-27125

E-mail address: Produktinformation-Pflanzenschutz@basf.com

Emergency information:

International emergency number:

Telephone: +49 180 2273-112

## 2. Hazards Identification

**According to REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures**

Label elements and precautionary statement:

Pictogram:



Signal Word:

| Danger

Hazard Statement:

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Toxic if inhaled. Harmful if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements (Prevention):**

Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe dust or mist. Wash with plenty of water and soap thoroughly after handling. Do not eat, drink or smoke when using this product.

**Precautionary Statements (Response):**

Call a POISON CENTER or doctor/physician. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: rinse mouth. Collect spillage. Specific treatment (see on this label).

**Precautionary Statements (Storage):**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Precautionary Statements (Disposal):**

Dispose of contents/container to hazardous or special waste collection point.

**Classification of the substance and mixture:**

Acute toxicity: Cat. 3 (Inhalation - vapour)  
Acute toxicity: Cat. 4 (oral)  
Specific target organ toxicity following repeat exposure: Cat. 1  
Acute hazards to the aquatic environment: Cat. 1  
Chronic hazards to the aquatic environment: Cat. 1

**Possible Hazards (according to Directive 67/548/EWG or 1999/45/EC)**

Harmful if swallowed.

Toxic by inhalation.

Toxic: danger of serious damage to health by prolonged exposure if swallowed.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### 3. Composition/Information on Ingredients

Chemical nature

crop protection product, insecticide, suspension concentrate (SC)

Hazardous ingredients

according to Directive 1999/45/EC

**Fipronil**

Content (W/W): 18.9 %

CAS Number: 120068-37-3

EC-Number: 424-610-5

Hazard symbol(s): T, N

R-phrase(s): 23/24/25, 48/25, 50/53

| Ethoxylated polyarylphenol phosphat ester  
Content (W/W): <= 5 %  
Hazard symbol(s): Xi  
R-phrase(s): 36

Fatty alcohol ethoxylate  
Content (W/W): <= 2 %  
Hazard symbol(s): Xi  
R-phrase(s): 36

| Surfactant blend  
Content (W/W): <= 2 %  
| Hazard symbol(s): Xi  
| R-phrase(s): 36/38, 52/53

| Tributyl phenol polyglycol ether  
Content (W/W): <= 1 %  
| CAS Number: 9046-09-7  
| Hazard symbol(s): Xn, N  
| R-phrase(s): 22, 41, 51/53

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

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## 4. First-Aid Measures

General advice:

| First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air. Immediate medical attention required.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

On contact with eyes:

| Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

| Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, water fog, carbon dioxide, foam, dry extinguishing media

Specific hazards:

carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, sulfur oxides, organochloric compounds

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## 6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Cleaning operations should be carried out only while wearing breathing apparatus. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

## 7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

### Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight. Store protected against freezing.

Storage stability:

Storage duration: 36 Months

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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## **8. Exposure Controls/Personal Protection**

### Components with workplace control parameters

| 8001-30-7: corn oil

| 57-55-6: propane-1,2-diol

### Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Wear respiratory protection if ventilation is inadequate. Particle filter with high efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P3 or FFPE).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

**General safety and hygiene measures:**

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Take off immediately all contaminated clothing. Store work clothing separately. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

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## 9. Physical and Chemical Properties

Form:	liquid	
Colour:	off-white	
Odour:	odourless	
pH value:	4.1 (measured with the undiluted substance)	
Freezing point:	-7 °C	
onset of boiling:	approx. > 100 °C (1,013 hPa) Information applies to the solvent.	
Flash point:	> 85 °C Non-flammable.	
Flammability:	does not ignite	
Self ignition:	Temperature: 410 °C	(Method: Directive 92/69/EEC, A.15)
Explosion hazard:	not explosive	(Directive 92/69/EEC, A.14)
Fire promoting properties:	not fire-propagating	
Vapour pressure:	23 hPa (20 °C) Information applies to the solvent.	
Density:	1.034 g/cm <sup>3</sup> (20 °C)	(Directive 92/69/EEC, A.3)
Solubility in water:	dispersible	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Surface tension:	34 mN/m	(Directive 92/69/EEC, A.5)
Viscosity, dynamic:	81 mPa.s	

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## 10. Stability and Reactivity

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

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Substances to avoid:  
No substances known that should be avoided.

Hazardous reactions:  
No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Acute toxicity

Experimental/calculated data:  
LD50 rat (oral): 977 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation): 0.94 mg/l 4 h (OECD Guideline 403)  
An aerosol was tested.

LD50 rat (dermal): 2,493 mg/kg (OECD Guideline 402)

### Irritation

Experimental/calculated data:  
Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eyes damages/irritation rabbit: non-irritant (Draize test)

### Respiratory/Skin sensitization

Experimental/calculated data:  
modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies. (OECD Guideline 406)

### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

*Information on: fipronil*  
*Experimental/calculated data:*

*rat*  
*NOAEL: 0.019 mg/kg*  
*LOAEL: 0.06 mg/kg*

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### Other relevant toxicity information

Misuse can be harmful to health.



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## 12. Ecological Information

### Ecotoxicity

Information on: *fipronil*

Toxicity to fish:

LC50 (96 h) 0.25 mg/l, *Oncorhynchus mykiss*

LC50 (96 h) 0.0852 mg/l, *Lepomis macrochirus*

LC50 (96 h) 0.43 mg/l, *Cyprinus carpio*  
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Information on: *fipronil*

Aquatic invertebrates:

EC50 (48 h) 0.19 mg/l, *Daphnia magna*  
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Information on: *fipronil*

Aquatic plants:

EC50 (96 h) 0.068 mg/l (biomass), *Scenedesmus subspicatus*  
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### Persistence and degradability

Information on: *fipronil*

Elimination information:

Not readily biodegradable (by OECD criteria).  
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### Additional information

Other ecotoxicological advice:

The ecological data given are those of the active ingredient. Do not discharge product into the environment without control.

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## 13. Disposal Considerations

Must be dumped or incinerated in accordance with local regulations.

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## 14. Transport Information

### Land transport

ADR

Hazard class: 9  
Packing group: III  
ID number: UN 3082

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Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains FIPRONIL 19%)

RID

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains FIPRONIL 19%)

**Inland waterway transport**

ADNR

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains FIPRONIL 19%)

**Sea transport**

IMDG

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains FIPRONIL 19%)

**Air transport**

IATA/ICAO

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains FIPRONIL 19%)

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## 15. Regulatory Information

**Regulations of the European union (Labelling) / National legislation/Regulations**

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EEC Directives:

## Hazard symbol(s)

T Toxic.  
 N Dangerous for the environment.

## R-phrase(s)

R22 Harmful if swallowed.  
 R23 Toxic by inhalation.  
 R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.  
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## S-phrase(s)

S1/2 Keep locked-up and out of reach of children.  
 S13 Keep away from food, drink and animal feeding stuffs.  
 S20/21 When using do not eat, drink or smoke.  
 S29 Do not empty into drains.  
 S35 This material and its container must be disposed of in a safe way.  
 S36/37 Wear suitable protective clothing and gloves.  
 S38 In case of insufficient ventilation, wear suitable respiratory equipment.  
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
 S57 Use appropriate container to avoid environmental contamination.  
 S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

| Hazard determining component(s) for labelling: FIPRONIL

Other regulations

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

**16. Other Information**

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

T	Toxic.
N	Dangerous for the environment.
Xi	Irritant.
Xn	Harmful.
23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.

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50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
36	Irritating to eyes.
36/38	Irritating to eyes and skin.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
22	Harmful if swallowed.
41	Risk of serious damage to eyes.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.