

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 05.02.2008

Revision: 22.06.2007

1 Identification of substance:

- **Product details:**

- **Trade name:** Autokit CH50 [1] Liposome

- **Application of the substance / the preparation:** *In vitro diagnostics*

- **Manufacturer / Supplier:**

For Europe:

Wako Chemicals GmbH

Fuggerstrasse 12

D-41468 Neuss

Phone: ++49(0)2131 - 311-0

Fax: ++49(0)2131 - 311-100

- **E-mail address of the competent person responsible for the Safety Data Sheet:** *info@csb-online.de*

- **Informing department:** *Sales*

- **Emergency information:** *As above or next toxicological information centre*

2 Hazards identification

- **Hazard designation:** *void*

- **Information pertaining to particular dangers for man and environment** *void*

- **Classification system**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

3 Composition/information on ingredients

- **Chemical characterization**

- **Description:** *Preparation*

- **Dangerous components:** *Void*

- **Additional information** *For the wording of the listed risk phrases refer to section 16.*

4 First aid measures

- **General information** *Remove contaminated clothing.*

- **After inhalation** *Supply fresh air; consult doctor in case of symptoms.*

- **After skin contact**

Wash with soap and water.

If skin irritation continues, consult a doctor.

- **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- **After swallowing**

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents** *Use fire fighting measures that suit the environment.*

- **For safety reasons unsuitable extinguishing agents** *none*

- **Special hazards caused by the material, its products of combustion or flue gases:**

Oxides of phosphorus (PxOy)

Nitrogen oxides (NOx)

Carbon monoxide (CO) and Carbon dioxide (CO₂)

- **Protective equipment:** *Wear self-contained breathing apparatus.*

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- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Person-related safety precautions:**
 - Ensure adequate ventilation.
 - Do not breathe vapours.
 - Avoid skin and eye contact.
- **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
 - Ensure adequate ventilation.
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Ensure good ventilation/exhaustion at the workplace.
 - Prevent formation of aerosols.
 - Do not inhale aerosols.
 - Avoid skin and eye contact.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Storage**
- **Requirements to be met by storerooms and containers:**
 - Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
 - Store in cool, dry conditions in well sealed containers.
 - Protect from heat and direct sunlight.
 - Store container in a well ventilated position.
 - Recommended storage temperature: 2 - 10 °C
 - Protect from frost.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and food.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes and skin.
 - Use skin protection cream for preventive skin protection.
 - Wash hands during breaks and at the end of the work.
- **Breathing equipment:** Use breathing protection in case of insufficient ventilation.
- **Protection of hands:**
 - Protective gloves
 - Check the permeability prior to each renewed use of the glove.
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

· **Body protection:** Protective work clothing

9 Physical and chemical properties:

· **General Information**

Form:	liquid
Colour:	clear
	nearly colourless
Smell:	odourless

· **Change in condition**

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

· **Flash point:** not applicable

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Density** not determined

· **Solubility in / Miscibility with**

Water: miscible

· **pH-value at 20°C:** 8.1

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

Direct sunlight

Heat

· **Materials to be avoided:** Strong oxidizing agents

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous products of decomposition:**

Phosphorus oxides (e.g. P_2O_5)

Nitrogen oxides (NOx)

Carbon monoxide (CO) and Carbon dioxide (CO₂)

11 Toxicological information

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:** Slightly irritating

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- **on the eye:** Weak irritating effect
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **General notes:** Water hazard class 2 (Self-assessment): hazardous for water

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.
- **European waste catalogue**
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border):**
- **ADR/RID Class:** -
- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** -
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

- **Designation according to EC guidelines:**
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.
Observe all safety regulations when handling chemicals.
- **National regulations**
- **Decree to be applied in case of technical fault:** -
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:**
C.S.B. GmbH Phone: ++49 - 2151 - 652086-0
Oberstraße 10 Fax: ++49 - 2151 - 652086-9
D-47829 Krefeld
Germany

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 05.02.2008

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1 Identification of substance:

- **Product details:**
- **Trade name:** Autokit CH50 [2] Substrate
- **Application of the substance / the preparation:** *In vitro diagnostics*
- **Manufacturer / Supplier:**
For Europe:

Wako Chemicals GmbH
Fuggerstrasse 12
D-41468 Neuss

Phone: ++49(0)2131 - 311-0
Fax: ++49(0)2131 - 311-100
- **E-mail address of the competent person responsible for the Safety Data Sheet:** *info@csb-online.de*
- **Informing department:** *Sales*
- **Emergency information:** *As above or next toxicological information centre*

2 Hazards identification

- **Hazard designation:** *void*
- **Information pertaining to particular dangers for man and environment** *void*
- **Classification system**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:**
Preparation
Antibody
- **Dangerous components:** *Void*
- **Additional information** *For the wording of the listed risk phrases refer to section 16.*

4 First aid measures

- **General information** *Remove contaminated clothing.*
- **After inhalation** *Supply fresh air; consult doctor in case of symptoms.*
- **After skin contact**
Wash with soap and water.
If skin irritation continues, consult a doctor.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
In case of persistent symptoms consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents** *Use fire fighting measures that suit the environment.*
- **For safety reasons unsuitable extinguishing agents** *none*
- **Special hazards caused by the material, its products of combustion or flue gases:**
Oxides of phosphorus (PxOy)
Nitrogen oxides (NOx)
Carbon monoxide (CO) and Carbon dioxide (CO₂)
- **Protective equipment:** *Wear self-contained breathing apparatus.*

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- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Person-related safety precautions:**
 - Ensure adequate ventilation.
 - Avoid breathing dust.
 - Avoid skin and eye contact.
- **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
 - Ensure adequate ventilation.
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Ensure good ventilation/exhaustion at the workplace.
 - Prevent formation of dust.
 - Do not breathe dust.
 - Avoid skin and eye contact.
 - Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Storage**
- **Requirements to be met by storerooms and containers:**
 - Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
 - Store in cool, dry conditions in well sealed containers.
 - Protect from heat and direct sunlight.
 - Store container in a well ventilated position.
 - Recommended storage temperature: 2 - 10 °C
 - Protect from frost.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and food.
 - Do not breathe dust.
 - Avoid contact with the eyes and skin.
 - Use skin protection cream for preventive skin protection.
 - Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
 - Use breathing protection in case of insufficient ventilation.
 - If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
- **Protection of hands:**
 - Protective gloves

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Check the permeability prior to each anewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

· **Body protection:** Protective work clothing

9 Physical and chemical properties:

· **General Information**

Form:	Powder
Colour:	white
Smell:	odourless

· **Change in condition**

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

· **Flash point:** not applicable

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Density** not determined

· **Solubility in / Miscibility with**

Water: soluble

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

Direct sunlight

Heat

· **Materials to be avoided:** Strong oxidizing agents

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous products of decomposition:**

Phosphorus oxides (e.g. P_2O_5)

Nitrogen oxides (NOx)

Carbon monoxide (CO) and Carbon dioxide (CO₂)

11 Toxicological information

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:** Slightly irritating

· **on the eye:** Weak irritating effect

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- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **General notes:** Water hazard class 2 (Self-assessment): hazardous for water

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.
- **European waste catalogue**
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border):**
- **ADR/RID Class:** -
- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** -
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

- **Designation according to EC guidelines:**
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.
Observe all safety regulations when handling chemicals.
- **National regulations**
- **Decree to be applied in case of technical fault:** -
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:**
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1 Identification of substance:

- **Product details:**

- **Trade name:** Autokit CH50 [3] Diluent

- **Application of the substance / the preparation:** *In vitro diagnostics*

- **Manufacturer / Supplier:**

For Europe:

Wako Chemicals GmbH

Fuggerstrasse 12

D-41468 Neuss

Phone: ++49(0)2131 - 311-0

Fax: ++49(0)2131 - 311-100

- **E-mail address of the competent person responsible for the Safety Data Sheet:** *info@csb-online.de*

- **Informing department:** *Sales*

- **Emergency information:** *As above or next toxicological information centre*

2 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**

R 43 May cause sensitisation by skin contact.

- **Classification system**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

3 Composition/information on ingredients

- **Chemical characterization**

- **Description:** *Buffer solution*

- **Dangerous components:**

CAS: 55965-84-9 Index Number: 613-167-00-5	Mixture containing: 5-Chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) T, C, N; R 23/24/25-34-43-50/53	< 0.06%
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- **Additional information** *For the wording of the listed risk phrases refer to section 16.*

4 First aid measures

- **General information** *Immediately remove any clothing contaminated by the product.*

- **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

Consult a doctor for safety reasons.

- **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- **After swallowing**

Rinse out mouth and then drink plenty of water.

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In case of persistent symptoms consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** none
- **Special hazards caused by the material, its products of combustion or flue gases:**
Hydrogen chloride (HCl)
Nitrogen oxides (NO_x)
Carbon monoxide (CO) and Carbon dioxide (CO₂)
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation.
Do not breathe vapours.
Avoid skin and eye contact.
- **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Do not inhale aerosols.
Avoid skin and eye contact.
Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Storage**
- **Requirements to be met by storerooms and containers:**
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
Protect from heat and direct sunlight.
Store container in a well ventilated position.
Recommended storage temperature: 2 - 10 °C
Protect from frost.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.

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- **Personal protective equipment**
- **General protective and hygienic measures**
 Keep away from foodstuffs, beverages and food.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the eyes and skin.
 Use skin protection cream for preventive skin protection.
 Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
 Use breathing protection in case of insufficient ventilation.
 If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
- **Protection of hands:**
 Protective gloves
 Check the permeability prior to each renewed use of the glove.
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- **Material of gloves**
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

9 Physical and chemical properties:

· General Information

Form:	liquid
Colour:	clear
	colourless
Smell:	odourless

· Change in condition

Melting point/Melting range: not determined
Boiling point/Boiling range: not determined

· **Flash point:** not applicable

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Density** not determined

· Solubility in / Miscibility with

Water: miscible

· **pH-value at 20°C:** 5.5

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
 Direct sunlight

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Heat

- **Materials to be avoided:** Strong oxidizing agents
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:**
Nitrogen oxides (NO_x)
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Hydrogen chloride (HCl)

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Slightly irritating
- **on the eye:** Weak irritating effect
- **Sensitization:** Sensitization possible by skin contact.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information:

- **General notes:** Water hazard class 2 (Self-assessment): hazardous for water

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.
- **European waste catalogue**
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border):**
- **ADR/RID Class:** -
- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** -
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified/labelled in accordance with EC Directives / relevant national laws.

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Trade name: Autokit CH50 [3] Diluent

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· **Code letter and hazard designation of product:**



Xi Irritant

· **Hazard-determining components of labelling:**

Mixture containing: 5-Chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)

· **Risk phrases:**

43 May cause sensitisation by skin contact.

· **Safety phrases:**

24 Avoid contact with skin.

37 Wear suitable gloves.

· **National regulations**

· **Information about limitation of use:** Employment restrictions concerning young persons must be observed.

· **Decree to be applied in case of technical fault:** -

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases:**

The(se) R-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation.

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

34 Causes burns.

43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Department issuing MSDS:**

C.S.B. GmbH Phone: ++49 - 2151 - 652086-0

Oberstraße 10 Fax: ++49 - 2151 - 652086-9

D-47829 Krefeld

Germany