

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 28.01.2009

Revision: 07.07.2008

1 Identification of substance

- **Product details**
- Trade name **Epoxy BS 3000 M, component A**
Viscacid BS 3000 silk flat, component A
- **Article number:** 6370-79
- **Application of the substance / the preparation** Coating
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
Postfach 1255
D-49624 Lönningen / Germany
Tel.: 05432/83-0
Fax: 05432/3985
- **Informing department:**
Product Safety department: Tel.: +49 (0)5432/83-138/-538
E-Mail: sales@remmers.co.uk
- **Emergency information:**
during working hours:
U.K.: Tel.: +44 (0) 845 373 0103
Far East: Tel.: +65(0) 67410277
Head Office Germany: Tel.: +49 (0)5432 83 185
after working hours: Tel.: +49 (0)171/6428-297

2 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**
R 41 Risk of serious damage to eyes.
- **Classification system**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Resin mixture.

- **Dangerous components:**

Polyamin-Epoxidharz-Addukt	Xi; R 41	10-<25%
Polymer basiert auf Epoxyamin-Addukt	Xi; R 41	1-<2.5%

4 First aid measures

- **General information**
If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.
Immediately remove any clothing soiled by the product.

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- In case of irregular breathing or respiratory arrest, provide artificial respiration.
- **After inhalation**
Take affected persons into the open air and position comfortably
Seek medical treatment.
- **After skin contact**
Wash immediately with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact**
Rinse opened eye for several minutes under running water.
Call a doctor immediately.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
- **Information for doctor**
- **The following symptoms may occur:** Contact with eyes may cause irritation and pain
- **Danger** Damage of the cornea and eye lids.
- **Treatment** symptomatic treatment

5 Fire fighting measures

- **Suitable extinguishing agents**
Water mist
Water spray jet
- **Special hazards caused by the material, its products of combustion or flue gases:**
May be released in case of fire
Carbon monoxide (CO)
Carbon dioxide
Nitrogen oxides (NO_x)
Ammonia
Under certain fire conditions, traces of other toxic substances cannot be excluded.
- **Protective equipment:**
Wear self-contained breathing apparatus.
Wear full protective suit.
- **Additional information**
Cool endangered containers with water spray jet.
Collect contaminated fire fighting water separately. It must not enter drains.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Measures for environmental protection:**
Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.
Inform responsible authorities in case product reaches bodies of water or sewage system.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Additional information:** See Section 8 for information on personal protection equipment.

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7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Use only in well ventilated areas.
 - Avoid the formation of aerosols.
 - Open and handle container with care.
 - Always avoid direct contact with the product!
- **Information about protection against explosions and fires:** No special requirements.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information on storage in a common storage facility:**
 - Store away from oxidizing agents.
 - Do not store together with acids.
- **Further information about storage conditions:**
 - Store cool and dry in tightly closed containers.
 - Store container in a well ventilated position.
 - Protect from frost.
 - Protect from heat and direct sunlight.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
 - The product does not contain any relevant quantities of materials with limit values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during compilation were used as a basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Immediately remove soiled, saturated clothing.
 - Keep away from food, beverages and animal feed.
 - Do not eat, drink or smoke while working.
 - Store protective clothing separately.
 - Use skin protection cream for preventive skin protection.
 - Wash hands before pauses and after work.
 - Be sure to clean skin thoroughly before pauses and after work.
 - Avoid contact with eyes and skin.
 - Do not inhale gases / vapours / aerosols.
- **Respiratory equipment:**
 - In case vapours/aerosols develop:
 - Filter A (brown)
 - Only use ambient air independent respiratory equipment in pits, shafts and silos!
- **Protection of hands:**
 - Impervious gloves
 - Long cuffed gloves
- **Material of gloves**
 - Butyl rubber, BR
 - Nitrile rubber, NBR
- **Penetration time of glove material**
 - Break through time: max. 240 min (DIN EN 374).
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**
 - Tightly sealed safety glasses.

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- Face protection
 · **Body protection:** Protective work clothing.

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9 Physical and chemical properties:

· General Information

Form:	Fluid
Colour:	Different, according to dye
Odour:	Ammonia-like

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: > 100°C

· **Flash point:** > 100°C

· **Self-inflammability:** Product is not self-igniting.

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

· **Density at 20°C** ca. 1.44 g/cm³

· **Solubility in / Miscibility with Water:** Fully miscible

· **Viscosity:**
dynamic at 23°C: ca. 730 mPas

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
 No decomposition if used according to specifications.
 No decomposition if handled and stored according to specifications.
- **Materials to be avoided:**
 oxidising agent
 Acids
 peroxides
- **Dangerous reactions** Exothermic reaction with acids
- **Dangerous decomposition products:**
 None if used properly.
 None if stored properly.
 At high temperatures, the following may occur:
 ammonia
 Irritating gases/vapours
 Poisonous gases/vapours

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritating effect.
- **on the eye:** Strong irritating effect with the danger of severe eye injury.
- **Sensitisation:** No sensitising effect known.
- **Additional toxicological information:**
 The product shows the following dangers based on the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

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Irritant

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12 Ecological information:

- **General notes:**

Water hazard class 2 : hazardous to water.

Do not allow product to reach ground water, bodies of water or sewage system.
 according to appendix 4 VwVwS

13 Notes on disposal:

- **Product:**

- **Recommendation**

Not hardened material must be disposed of as hazardous waste according to official regulations. Hardened product remains may be disposed of as building rubble or put into household garbage.

The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

- **ADR/RID-GGVS/E Class:** -

- **Maritime transport IMDG/GGVSea:**

- **IMDG/GGVSea Class:** -

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not a hazardous good according to the above regulations.

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15 Regulatory information

- **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)

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



Xi Irritant

- **Risk phrases:**

41 Risk of serious damage to eyes.

- **Safety phrases:**

2 Keep out of the reach of children.

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- **National regulations**

- **Water hazard class:**

German Water hazard class 2: hazardous to water.
 according to appendix 4 VwVwS

- **Other regulations, limitations and prohibition ordinances**

APME document: "Epoxy resins and hardener: Toxicology, working safety, environment."

- **Professional Association (BG) Code of Practice:**

BGR 227 - "Epoxy Resins"

M 004 "Irritating substances/corrosive substances"

16 Other information:

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.
 Delivery specifications are found in the respective Technical Information Sheets.

- **Relevant R-phrases**

41 Risk of serious damage to eyes.

- **Department issuing data specification sheet:** Product Safety department

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1 Identification of substance

- **Product details**
- Trade name **Epoxy BS 3000 M, Komponente B**
Viscacid BS 3000 silk flat, component B
- **Article number:** 6370-79
- **Application of the substance / the preparation** Coating
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
Postfach 1255
D-49624 Lönigen / Germany
Tel.: 05432/83-0
Fax: 05432/3985
- **Informing department:**
Product Safety department: Tel.: +49 (0)5432/83-138/-538
E-Mail: sales@remmers.co.uk
- **Emergency information:**
during working hours:
U.K.: Tel.: +44 (0) 845 373 0103
Far East: Tel.: +65(0) 67410277
Head Office Germany: Tel.: +49 (0)5432 83 185
after working hours: Tel.: +49 (0)171/6428-297

2 Hazards identification

- **Hazard designation:**



Xi Irritant
N Dangerous for the environment

- **Information pertaining to particular dangers for man and environment**
R 36/38 Irritating to eyes and skin.
R 43 May cause sensitisation by skin contact.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Contains epoxy constituents. See information supplied by the manufacturer.
- **Classification system**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Modified epoxide resin

- **Dangerous components:**

CAS: 28064-14-4	Bisphenol-F-Epichlorhydrin-Harze MG < 700 Xi, N; R 36/38-43-51/53	40-60%
CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Xi, N; R 36/38-43-51/53	20-40%
CAS: 16096-31-4 EINECS: 240-260-4	hexandiol diglycidylether Xi; R 36/38-43-52/53	10-20%

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

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4 First aid measures

- **General information**

If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest, provide artificial respiration.

- **After inhalation**

Take affected persons into the open air and position comfortably

Seek medical treatment in case of complaints.

- **After skin contact**

Wash immediately with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact**

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

- **After swallowing**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

- **Information for doctor**

- **The following symptoms may occur:** Irritating effect on skin and eyes.

- **Treatment** symptomatic treatment

5 Fire fighting measures

- **Suitable extinguishing agents**

Foam

Water spray jet

Water mist

Dry extinguishing agents, carbon dioxide, sand or earth should only be used for small fires.

- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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

May be released in case of fire

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen chloride (HCl)

- **Protective equipment:**

Wear self-contained breathing apparatus.

Wear full protective suit.

- **Additional information**

Cool endangered containers with water spray jet.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- **Measures for environmental protection:**

Do not allow product to reach sewage system or water bodies.

Do not allow to enter the ground/soil.

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Inform responsible authorities in case product reaches bodies of water or sewage system.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

· **Handling**

· **Information for safe handling:**

Use only in well ventilated areas.

Avoid the formation of aerosols.

Open and handle container with care.

· **Information about protection against explosions and fires:** No special requirements.

· **Storage**

· **Requirements to be met by storerooms and containers:**

Store in cool location.

Store only in the original container.

· **Information on storage in a common storage facility:** Store away from food.

· **Further information about storage conditions:**

Store cool and dry in tightly closed containers.

Store container in a well ventilated position.

Protect from frost.

Protect from heat and direct sunlight.

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** Use only in well-ventilated areas.

· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with limit values that have to be monitored at the workplace.

· **Additional information:** The lists that were valid during compilation were used as a basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

Immediately remove soiled, saturated clothing.

Keep away from food, beverages and animal feed.

Do not eat, drink or smoke while working.

Wash hands before pauses and after work.

Avoid contact with eyes and skin.

Use skin protection cream for preventive skin protection.

Do not inhale gases / vapours / aerosols.

· **Respiratory equipment:**

In case vapours/aerosols develop:

Filter A (brown)

Only use ambient air independent respiratory equipment in pits, shafts and silos!

· **Protection of hands:**

Impervious gloves

Long cuffed gloves

· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

· **Penetration time of glove material**

Break through time: max. 240 min (DIN EN 374).

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

- **Eye protection:**
Tightly sealed safety glasses.
Face protection
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· General Information	
· Form:	Fluid
· Colour:	Yellowish
· Odour:	Weak, characteristic
· Change in condition	
· Melting point/Melting range:	Not determined
· Boiling point/Boiling range:	Not determined
· Flash point:	ca. 149°C
· Ignition temperature:	
· Decomposition temperature:	> 200°C
· Self-inflammability:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive.
· Density at 20°C	ca. 1.15 g/cm ³
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Distribution coefficient (n-octanol/water):	> 3 log POW pure epoxide resin
· Viscosity: dynamic at 25°C:	600 - 800 mPas

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
No decomposition if handled and stored according to specifications.
Thermic decomposition as of approx. 200 °C.
- **Materials to be avoided:** Strong acids, strong bases and strong oxidising agents.
- **Dangerous reactions** Reacts with strong oxidising agents
- **Dangerous decomposition products:**
None if used properly.
None if stored properly.

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11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Oral	LD50	> 10000 mg/kg (Ratte)
------	------	-----------------------

Dermal	LD50	> 2000 mg/kg (Ratte)
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16096-31-4 hexandiol diglycidylether

Oral	LD50	2900 mg/kg (Ratte)
------	------	--------------------

Dermal	LD50	> 4900 mg/kg (Ratte)
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· **Primary irritant effect:**

· **on the skin:** Irritates skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitisation:** Sensitisation possible by skin contact.

· **Additional toxicological information:**

The product shows the following dangers based on the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

· **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information:

· **General notes:**

Water hazard class 2 : hazardous to water.
according to appendix 4 VwVwS

Do not allow product to reach ground water, bodies of water or sewage system.

13 Notes on disposal:

· **Product:**

· **Recommendation**

Hardened material can be disposed of as building rubble.

The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

· **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
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08 01 00	wastes from MFSU and removal of paint and varnish
----------	---

08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
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20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
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20 01 00	separately collected fractions (except 15 01)
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20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
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· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

· Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)



- **ADR/RID-GGVS/E Class:** 9 (M6) Miscellaneous hazardous substances and articles.
- **Kemler Number:** 90
- **UN-Number:** 3082
- **Packaging group:** III
- **Danger sign:** 9
- **Designation of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700))
- **Remarks:** TREM-card No.: 93

· Maritime transport IMDG/GGVSea:



- **IMDG/GGVSea Class:** 9
- **UN Number:** 3082
- **Label:** 9
- **Packaging group:** III
- **EMS Number:** F-A,S-F
- **Marine pollutant:** -
- **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700))

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3082
- **Label:** 9
- **Packaging group:** III
- **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700))

15 Regulatory information

· Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)

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

Xi Irritant
N Dangerous for the environment

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

Bisphenol-F-Epichlorhydrin-Harze MG < 700
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
hexandiol diglycidylether

· **Risk phrases:**

36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

2 Keep out of the reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of soap and water.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
46 If swallowed, seek medical advice immediately and show this container or label.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· **Special labelling of certain preparations:**

Contains epoxy constituents. See information supplied by the manufacturer.

· **National regulations**· **Water hazard class:**

German Water hazard class 2: hazardous to water.
according to appendix 4 VwVwS

· **Other regulations, limitations and prohibition ordinances**

APME document: "Epoxy resins and hardener: Toxicology, working safety, environment."

· **Professional Association (BG) Code of Practice:**

BGR 227 - "Epoxy Resins"
M 004 "Irritating substances/corrosive substances"

16 Other information:

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.
Delivery specifications are found in the respective Technical Information Sheets.

· **Relevant R-phrases**

36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Department issuing data specification sheet:** Product Safety department

GB

