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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2025 Version number 52 (replaces version 51) Revision: 12.04.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

• Trade name MC-DUR 1365 HBF - Komponente A

· Article number: 897

· 1.2 Relevant identified uses of the substance or mixture

and uses advised against No further relevant information available.

· Application of the substance

/ the mixture Epoxy coating

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: MC-Bauchemie Müller GmbH & Co. KG

Am Kruppwald 1-8 D-46238 Bottrop Tel.: +49(0)2041-101-0 Fax.: +49(0)2041-101-400 E-Mail: info@mc-bauchemie.de

MC-Bauchemie AG Hagackerstr. 10 CH-8953 Dietikon Tel.: +44-7400510 Fax: +44-7400533

Informing department:

1.4 Emergency telephone

number:

Tel.: +49 / (0)700 24112112 (MCR)

Tel.: +1 872 5888271 (MCR)

msds@mc-bauchemie.de

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction.

Repr. 1B H360F May damage fertility.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· 2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

· Hazard pictograms









GHS05 GHS07 GHS08

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· Signal word

ninina

· Hazard-determining components of labelling:

4,4'-Methylenediphenyldiglycidyl ether

Oxirane, 2-methyl-, polymer with 2,4-diisocyanato-1-methylbenzene, 2-methyloxirane polymer with oxirane ether with 1,2,3-propanetriol (3:1) and oxirane, cashew nutshell liquid and

propyl alcohol blocked

Oxirane, mono((C12-14-alkyloxy)methyl)derivatives

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane

(1:2)

Danger

Hydrocarbons, C9-unsaturated, polymerised

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}

methyl)oxirane

decarboxylating cashew nut shell liquid

· **Hazard statements** H315 Causes skin irritation.

H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

H360F May damage fertility.

H411 Toxic to aquatic life with long lasting effects.

• Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/

spray.

P280 Wear protective gloves/protective clothing/eye

protection/face protection/hearing protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it

before reuse.

· Additional information: EUH205 Contains epoxy constituents. May produce an allergic

reaction.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable. · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• **Description:** Mixture consisting of the following components.

Dangerous components:

CAS: 1675-54-3 4,4'-Methylenediphenyldiglycidyl ether

30-60%

Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319;

Skin Sens. 1, H317

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		Contd. of page 2		
CAS: 933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl) oxirane (1:2)	≥2.5-<10%		
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412			
CAS: 1227870-90-7	methylbenzene, 2-methyloxirane polymer with oxirane ether with 1,2,3-propanetriol (3:1) and oxirane, cashew nutshell liquid and propyl alcohol blocked	≥3-<10%		
	Eye Dam. 1, H318; Skin Sens. 1, H317			
CAS: 71302-83-5	Hydrocarbons, C9-unsaturated, polymerised Asp. Tox. 1, H304; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	≥2.5-<5%		
CAS: 68609-97-2 EINECS: 271-846-8	Oxirane, mono((C12-14-alkyloxy)methyl)derivatives Repr. 1B, H360F; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥1-<2.5%		
CAS: 9003-36-5	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205			
CAS: 8007-24-7 EINECS: 232-355-4	decarboxylating cashew nut shell liquid Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥0.1-<0.5%		
· Additional informat	• Additional information For the wording of the listed hazard phrases refer to section 16.			

SECTION 4: First aid measures

· 4.1 Description of first aid measures

• General information Remove contaminated clothing immediately. Consult a doctor if

symptoms occur. Move affected person to fresh air.

• After inhalation Supply fresh air; seek medical advice if symptoms occur.

If unconscious, place in recovery position and seek medical advice.

· After skin contact In case of contact with skin, wash carefully with plenty of soap and

water. Consult a doctor in case of skin reactions.

· After eye contact Rinse opened eye for several minutes under running water.

Call a doctor immediately

· After swallowing Rinse mouth with water. Never give anything by mouth to an

unconscious person. DO NOT induce vomiting. If symptoms

persist, consult a doctor.

· 4.2 Most important symptoms and effects, both acute and

delayed Advice for the doctor: Elementary aid, decontamination,

symptomatic treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

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

· 5.2 Special hazards arising from the substance or

mixture No further relevant information available.

5.3 Advice for firefighters

· Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and

emergency procedures

Not required.

· 6.2 Environmental

precautions: Inform respective authorities in case product reaches water or

sewage system.

· 6.3 Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders,

universal binders, sawdust). Ensure adequate ventilation.

· 6.4 Reference to other

sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Open and handle containers with care.

Ventilation measures are required in rooms without sufficient air exchange (e.g. closed rooms),

because the occupational exposure limit values (see chapter 8)

could be exceeded. This must be avoided.

Wear suitable personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Change contaminated or damaged gloves and contaminated clothing immediately and wash skin immediately. Mix slowly, partially covering the mixing container. Pour carefully and slowly when repotting. Observe the BGBau technical data sheet and practical guide for handling epoxy

resins.

· Information about protection

against explosions and fires: Ensure sufficient air exchange and/or extraction in the working areas. Take precautionary measures to avoid electrostatic

discharges.

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· 7.2 Conditions for safe storage, including any incompatibilities

Storage

· Requirements to be met by

storerooms and containers: No special requirements.

· Further information about

storage conditions: None.
Storage class 6.1C

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· 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.

· DNELs

CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives

Dermal DNEL 0.75 mg/kg bw/day (ArL)

Inhalative DNEL 0.49 mg/m³ (ArL)

· PNECs

CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives

PNEC 0.00072 mg/l (Mew)

0.0072 mg/l (Freshwater)

PNEC 80.12 mg/kg dwt (Bod)

6.677 mg/kg dwt (Sediment)

66.77 mg/kg dwt (Fresh water sediment)

• Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls · Appropriate engineering

controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

General protective and

hygienic measures Keep away from food, drink and animal feed.

Remove soiled, soaked clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

· Breathing equipment: If workplace limit values cannot be complied with by ventilation

measures or if rooms cannot be technically ventilated, respiratory protection must be worn: Use combination filter A1-P2 (brown/white) in rooms that cannot be ventilated. If oxygen deficiency is expected, use self-contained breathing apparatus. Observe wearing time limits according to §9 (3) GefStoffV in conjunction

with BGR 190.

· Hand protection Selection of the glove material on consideration of the penetration

times, rates of diffusion and the degradation

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Material of gloves You can find help with choosing gloves on the website https://

www.bgbau.de/fileadmin/Gisbau/Projekte.pdf

For example, we recommend the Sol-vex 37-900 protective gloves from Ansell GmbH. The breakthrough time of the protective gloves can be found under point 8 "Penetration time of the glove material". The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. As the product

is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

Nitrile rubber

Recommended material thickness:≥ 0.4 mm

· Penetration time of glove material

The breakthrough times of the Sol-vex 37-900 protective gloves

are around 8 hours.

The following applies to all other gloves:

The exact breakthrough time must be obtained from the protective

glove manufacturer and adhered to.

Nitrile rubber

Material thickness: ≥ 0.40 mm Penetration time: ≥ 480 min

Butyl rubber:

Material thickness: ≥ 0.5 mm Penetration time: ≥ 480 min Tight-fitting safety goggles.

• **Eye/face protection** Tight-fitting safety Safety goggles.

Protective clothing

Suitable protective clothing should be worn when working with epoxy resins. In addition to normal work clothing (long trousers, long-sleeved shirt or T-shirt), disposable overalls, aprons, overshoes, sleeve protectors etc. may be necessary depending on the activity. Uncovered areas of skin should be avoided as far as possible, even in hot weather. If the work involves kneeling, the

lower leg area should be protected by protective trousers.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Body protection:

· Colour: According to product specification

Smell: CharacteristicMelting point/freezing point: Not determined

Boiling point or initial boiling point and

boiling range >200 °C
• Flash point: >150 °C
• Auto-ignition temperature: 184 °C

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· **pH** Not determined.

· Viscosity:

Kinematic viscositydynamic at 20 °C:Not determined.50000 mPas

·Solubility

• Water: Not miscible or difficult to mix

· Steam pressure at 20 °C: 0.1 hPa

Density and/or relative density

Density at 20 °C 1.33 g/cm³

· 9.2 Other information

· Appearance:

· Form: Viscous

· Important information on protection of health

and environment, and on safety.

Self-inflammability: Product is not selfigniting.
 Explosive properties: Product is not explosive.

· Information with regard to physical hazard

classes

· Explosives Void · Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void

flammable gases in contact with water

Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Desensitised explosives
Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous

reactions No dangerous reactions known

• 10.4 Conditions to avoid No further relevant information available.

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• 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous

decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

CAS: 1675-54-3 4,4'-Methylenediphenyldiglycidyl ether

Oral LD50 11400 mg/kg (rat)

Dermal LD50 23000 mg/kg (rabbit)

>2000 mg/kg (rat)

CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives

Oral LD50 17100 mg/kg (rat)

CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]
bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]
bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)

oxirane

Oral LD50 >2000 mg/kg (rat)
Dermal LD50 >2000 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation
 Serious eye damage/irritation
 Causes skin irritation.
 Causes serious eye damage.

· Respiratory or skin

sensitisation May cause an allergic skin reaction.

• Germ cell mutagenicity
• Carcinogenicity

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Reproductive toxicity May damage fertility.

STOT-single exposure
STOT-repeated exposure
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

· Endocrine disrupting properties

CAS: 128-37-0 | 2,6-Di-tert-butyl-p-cresol | List II

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 1675-54-3 4,4'-Methylenediphenyldiglycidyl ether

LC50/72h >11 mg/l (algae)

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IC50 >42.6 mg/l (Bak)

LC50/96h 2 mg/l (Oncorhynchus mykiss)

1.3 mg/l (fish)

EC50/48h 2.1 mg/l (daphnia)

1.8 mg/l (Daphnia magna)

ErC50/72h 11 mg/l (Selenastrum capricornutum)

CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives

EbC50/72h 843 mg/l (Pseudokirchneriella subcapitata)

LC50/96h >5000 mg/l (Oncorhynchus mykiss)

1800 mg/l (Lepomis macrochirus)

EC50 >100 mg/l (BEL)

NOEC 500 mg/l (Pseudokirchneriella subcapitata)

CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]

bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)

oxirane

LC50/96h >100 mg/l (Daphnia magna) EC50/96h >100 mg/l (Leucidus idus)

12.2 Persistence and

degradability No further relevant information available.

· 12.3 Bioaccumulative

potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

· 12.6 Endocrine disrupting

properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

· Remark: Toxic for fish

· Additional ecological information:

• General notes: Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Do not allow product to reach ground water, water bodies or

sewage system.

Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Must not be disposed of together with household garbage. Do not

allow product to reach sewage system.

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· 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 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)		
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances		
HP4	Irritant - skin irritation and eye damage		
HP10	Toxic for reproduction		
HP13	Sensitising		
HP14	Ecotoxic		

- · Uncleaned packagings:
- · Recommendation:

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14.1 UN number or ID number ADR, IMDG, IATA	UN3082
· 14.2 UN proper shipping name · ADR, IATA	ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (Epoxide resin)
· IMDG	ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (Epoxide resin MARINE POLLUTANT
· 14.3 Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous dangerous substances ar articles.
· Label	9
· IMDG, IATA	
Class	 Miscellaneous dangerous substances ar articles.
· Label	9
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	Yes
	Symbol (fish and tree) Symbol (fish and tree)

IF.





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Special marking (IATA):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	Α
14.7 Maritime transport in bulk accordi	ing to
IMO instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 100
	ml
Transport category	3
Tunnel restriction code	(-)
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (ÉQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 100
	ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU
_	SUBSTANCE, LIQUID, N.O.S. (EPOXIDE RESIN
	9, III

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- Qualifying quantity (tonnes) for the application of lower-

tier requirements

Qualifying quantity (tonnes) for the application of upper-

tier requirements 500 t

REGULATION (EC) No

1907/2006 ANNEX XVII Conditions of restriction: 3

200 t

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

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· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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 phrases H302 Harmful if swallowed.

> H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

May cause an allergic skin reaction. H317

Causes serious eye damage. H318 H319 Causes serious eye irritation.

H360F May damage fertility.

Toxic to aquatic life with long lasting effects. H411 Harmful to aquatic life with long lasting effects. H412

EUH205 Contains epoxy constituents. May produce an allergic

reaction.

· Department issuing data

specification sheet: Environment protection department.

Date of previous version: 15.10.2021

· Version number of previous

version: 51

· Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises

dangereuses par chemin de fer (Regulations Concerning the International

Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous

Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) (Contd. on page 13)



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DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A Repr. 1B: Reproductive toxicity - Category 1B Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic

hazard – Category 3

· * Data compared to the previous version altered.