

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 2/17/2023 Version: 1.0

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

#### 1.1. Product identifier

Product form : Substance

Substance name : Aldehyde C16 strawberry IUPAC name : Ethyl 2,3-epoxy-3-phenylbutyrate

 EC-No.
 : 201-061-8

 CAS-No.
 : 77-83-8

 Product code
 : 23077

 Product group
 : Trade product

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Professional use, Consumer use
Use of the substance/mixture : Fragrance raw material

#### 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data sheet

De Hekserij Spoorstraat 57 8271 RG IJsselmuiden Nederland www.hekserij.nl

# 1.4. Emergency telephone number

No additional information available

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, category 1B H317
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

Full text of H- and EUH-statements: see section 16

# Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

## 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :





GHS07 GHS09

Signal word (CLP) : Warning

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing dust, fume, gas, mist, spray, vapours.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective clothing, eye protection, face protection, protective gloves.

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P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage.

P501 - Dispose of contents and container to an approved waste disposal plant.

#### 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Substance type : Mono-constituent

| Name                    | Product identifier                    | %   | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP] |
|-------------------------|---------------------------------------|-----|---|
| Aldehyde C16 strawberry | CAS-No.: 77-83-8<br>EC-No.: 201-061-8 | 100 | Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411                        |

Full text of H- and EUH-statements: see section 16

## 3.2. Mixtures

Not applicable

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : May cause an allergic skin reaction.

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

# 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

## 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid

breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

# 7.3. Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

| Aldehyde C16 strawberry (77-83-8)        |                          |
|--|--------------------------|
| DNEL/DMEL (Workers)                      |                          |
| Long-term - systemic effects, dermal     | 0.7 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 2.45 mg/m³               |

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| Aldehyde C16 strawberry (77-83-8)        |                           |  |
|--|---------------------------|--|
| DNEL/DMEL (General population)           |                           |  |
| Long-term - systemic effects,oral        | 0.35 mg/kg bodyweight/day |  |
| Long-term - systemic effects, inhalation | 0.61 mg/m³                |  |
| Long-term - systemic effects, dermal     | 0.35 mg/kg bodyweight/day |  |
| PNEC (Water)                             |                           |  |
| PNEC aqua (freshwater)                   | 0.0084 mg/l               |  |
| PNEC aqua (marine water)                 | 8.4 µg/l                  |  |
| PNEC aqua (intermittent, freshwater)     | 0.084 mg/l                |  |
| PNEC (Sediment)                          |                           |  |
| PNEC sediment (freshwater)               | 0.214 mg/kg dwt           |  |
| PNEC sediment (marine water)             | 0.0214 mg/kg dwt          |  |
| PNEC (Soil)                              |                           |  |
| PNEC soil                                | 0.0378 mg/kg dwt          |  |
| PNEC (Oral)                              |                           |  |
| PNEC oral (secondary poisoning)          | 23.3 mg/kg food           |  |
| PNEC (STP)                               |                           |  |
| PNEC sewage treatment plant              | 10 mg/l                   |  |
|  |                           |  |

#### 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

# 8.2.1. Appropriate engineering controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

## Personal protective equipment symbol(s):







## 8.2.2.1. Eye and face protection

#### Eye protection:

Safety glasses

# 8.2.2.2. Skin protection

## Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

# 8.2.2.3. Respiratory protection

# Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

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#### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : No data available
Odour : No data available
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available

Melting point : < -50 °C

Freezing point : No data available

Boiling point : 301.85 °C Atm. press.: 101,325 kPa Decomposition: 'no' Flash point : 131 °C Atm. press.: 101325 Pa Remarks on result: 'other.'

: No data available

Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Not applicable : 0.23 Pa Temp.: 20 °C Vapour pressure Relative vapour density at 20°C No data available Relative density : No data available Density : 1.099 g/cm<sup>3</sup> Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available

#### 9.2. Other information

Explosive limits

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

# 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) Not classified

| Aldehy | yde C16 | strawberry | (77-83-8) |
|--------|---------|------------|-----------|
|--------|---------|------------|-----------|

| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal          |  |
|-----------------|---|--|
|                 | Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Remarks on results: other: |  |

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

## Aldehyde C16 strawberry (77-83-8)

NOAEL (dermal, rat/rabbit, 90 days) > 1000 mg/kg bodyweight Animal: rat, Guideline: other:

Aspiration hazard : Not classified

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects. : Not classified

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Toxic to aquatic life with long lasting effects.

Not rapidly degradable

| Aldehyde C16 strawberry (77-83-8) |   |
|-----------------------------------|---|
| LC50 - Fish [1]                   | 4.2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)   |
| EC50 - Crustacea [1]              | 52 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h - Algae [1]              | 36 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1]              | 42 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

# 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

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# 12.6. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

|  |   |  | RID   |
|--|---|--|---|
|  |   |  |   |
| UN 3082  | UN 3082   | UN 3082  | UN 3082   |
| g name   |   |  |   |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16)                                   | Environmentally hazardous<br>substance, liquid, n.o.s.<br>(Aldehyde C16)  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16)   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16)  |
| ption  |   |  | J.  |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16), 9, III, MARINE POLLUTANT | UN 3082 Environmentally<br>hazardous substance,<br>liquid, n.o.s. (Aldehyde<br>C16), 9, III   | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16), 9,   | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16), 9,  |
| lass(es)   |   |  |   |
| 9  | 9   | 9  | 9   |
|  |   |  |   |
|  |   |  |   |
| III  | III   | III  | III   |
| ards   |   |  |   |
| Dangerous for the<br>environment: Yes<br>Marine pollutant: Yes                                       | Dangerous for the environment: Yes  | Dangerous for the environment: Yes   | Dangerous for the environment: Yes  |
|  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16)  ption  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16), 9, III, MARINE POLLUTANT  lass(es)  9  III  ards  Dangerous for the environment: Yes | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16)  Ption  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16), 9, III, MARINE POLLUTANT  Lass(es)  Dangerous for the environment: Yes Marine pollutant: Yes  Environmentally hazardous substance, (Aldehyde C16), 9, III  UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Aldehyde C16), 9, III  Dangerous for the environment: Yes Marine pollutant: Yes | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16)  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16)  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16)  SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16), 9, III  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16), 9, III  SUBSTANCE, LIQUID, N.O.S. (Aldehyde C16), 9, III  III  III  III  III  III  Dangerous for the environment: Yes Marine pollutant: Yes  Marine pollutant: Yes  Marine pollutant: Yes |

# 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5l Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19

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Portable tank and bulk container instructions (ADR) : TP1. TP29

Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) : LGBV Vehicle for tank carriage : AT Transport category (ADR) 3 Special provisions for carriage - Packages (ADR) : V12 Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) 90

Orange plates

90 3082

Tunnel restriction code (ADR)

Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : LP01, P001 Packing instructions (IMDG)

Special packing provisions (IMDG) : PP1 : IBC03 IBC packing instructions (IMDG) Tank instructions (IMDG) : T4 : TP1, TP29 Tank special provisions (IMDG) : F-A EmS-No. (Fire) EmS-No. (Spillage) : S-F Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y964 PCA limited quantity max net quantity (IATA) : 30kgG PCA packing instructions (IATA) : 964 : 450L PCA max net quantity (IATA) : 964 CAO packing instructions (IATA) CAO max net quantity (IATA) : 450L

: A97. A158. A197 Special provisions (IATA)

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6

: 274, 335, 375, 601 Special provisions (ADN)

: 5 L Limited quantities (ADN) : E1 Excepted quantities (ADN) Carriage permitted (ADN) Т : PP Equipment required (ADN) : 0 Number of blue cones/lights (ADN)

Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

: PP1 Special packing provisions (RID) : MP19 Mixed packing provisions (RID) : T4 Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV Transport category (RID) : 3

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Special provisions for carriage - Packages (RID) : W12 Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8 Hazard identification number (RID) : 90

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

| EU restriction list (REACH Annex XVII) |                         |   |
|--|-------------------------|---|
| Reference code                         | Applicable on           | Entry title or description  |
| 3(b)                                   | Aldehyde C16 strawberry | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c)                                   | Aldehyde C16 strawberry | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1   |

#### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

## **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

#### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

# **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

#### **Netherlands**

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen The substance is not listed SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed SZW-lijst van reprotoxische stoffen -: The substance is not listed Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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# **SECTION 16: Other information**

| Abbreviations and acronyms: |   |  |
|-----------------------------|---|--|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |  |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |  |
| ATE                         | Acute Toxicity Estimate   |  |
| BCF                         | Bioconcentration factor   |  |
| BLV                         | Biological limit value  |  |
| BOD                         | Biochemical oxygen demand (BOD)   |  |
| COD                         | Chemical oxygen demand (COD)  |  |
| DMEL                        | Derived Minimal Effect level  |  |
| DNEL                        | Derived-No Effect Level   |  |
| EC-No.                      | European Community number   |  |
| EC50                        | Median effective concentration  |  |
| EN                          | European Standard   |  |
| IARC                        | International Agency for Research on Cancer   |  |
| IATA                        | International Air Transport Association   |  |
| IMDG                        | International Maritime Dangerous Goods  |  |
| LC50                        | Median lethal concentration   |  |
| LD50                        | Median lethal dose  |  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |  |
| NOAEC                       | No-Observed Adverse Effect Concentration  |  |
| NOAEL                       | No-Observed Adverse Effect Level  |  |
| NOEC                        | No-Observed Effect Concentration  |  |
| OECD                        | Organisation for Economic Co-operation and Development  |  |
| OEL                         | Occupational Exposure Limit   |  |
| PBT                         | Persistent Bioaccumulative Toxic  |  |
| PNEC                        | Predicted No-Effect Concentration   |  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |  |
| SDS                         | Safety Data Sheet   |  |
| STP                         | Sewage treatment plant  |  |
| ThOD                        | Theoretical oxygen demand (ThOD)  |  |
| TLM                         | Median Tolerance Limit  |  |
| VOC                         | Volatile Organic Compounds  |  |
| CAS-No.                     | Chemical Abstract Service number  |  |
| N.O.S.                      | Not Otherwise Specified   |  |
| vPvB                        | Very Persistent and Very Bioaccumulative  |  |
| ED                          | Endocrine disrupting properties   |  |

| Full text of H- and EUF | I-statements:   |
|-------------------------|---|
| Aquatic Chronic 2       | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |

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| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| H317                                | May cause an allergic skin reaction.             |
| H411                                | Toxic to aquatic life with long lasting effects. |
| Skin Sens. 1B                       | Skin sensitisation, category 1B                  |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.