

Page 1 of 13 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 10.04.2017 / 0002 Replacing version dated / version: 14.03.2016 / 0001 Valid from: 10.04.2017 PDF print date: 11.04.2017 Glass Fabric with SAERfix® EP

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Glass Fabric with SAERfix® EP

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

See definition of the substance or mixture. Industrial use

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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SAERTEX GmbH & Co. KG, Brochterbecker Damm 52, 48369 Saerbeck, Germany Phone: +49 (0) 2574 902 0, Fax: +49 (0) 2574 902 9 info@saertex.com, www.saertex.com

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (SAR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) This is an article.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)

Not applicable

This is an article.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

SECTION 3: Composition/information on ingredients



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3.1 Substance

n.a. 3 2 Mixture

| 3.2 MIXture | |
|---|-------------------------------|
| Reaction products of diglycidyl ether bisphenol F (DGEBF) and | |
| oligomeric phenol diglycidyl ethers with acrylic acid | |
| Registration number (REACH) | 01-2119521533-48-XXXX |
| Index | |
| EINECS, ELINCS, NLP | 700-487-6 (REACH-IT List-No.) |
| CAS | |
| content % | 0,1-3 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315 |
| | Skin Sens. 1B, H317 |
| | Aquatic Chronic 2, H411 |
| | |
| reaction product bisphenol A-(epichlorhydrin), epoxy resin | |
| (number average molecular weight <= 700) | |
| Registration number (REACH) | 01-2119456619-26-XXXX |
| Index | 603-074-00-8 |
| EINECS, ELINCS, NLP | 500-033-5 (NLP) |
| CAS | 25068-38-6 |
| content % | 0,1-2,5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Eye Irrit. 2, H319 |
| | Skin Irrit. 2, H315 |
| | Skin Sens. 1, H317 |
| | Aquatic Chronic 2, H411 |
| | |
| 2-Propenenitrile, polymer with 1.3-butadiene, carboxy-terminated. | |

| 2-Propenenitrile, polymer with 1,3-butadiene, carboxy-terminated, | |
|---|-------------------------|
| polymers with bisphenol A and epichlorohydrin | |
| Registration number (REACH) | |
| Index | |
| EINECS, ELINCS, NLP | |
| CAS | 68610-41-3 |
| content % | 0,1-2,5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315 |
| | Skin Sens. 1, H317 |
| | Eye Irrit. 2, H319 |
| | Aquatic Chronic 2, H411 |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 12/2/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Supply person with fresh air.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.



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Ingestion

Typically no exposure pathway.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. **4.3 Indication of any immediate medical attention and special treatment needed**

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Adapt to the nature and extent of fire. Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon

Toxic gases

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required. Avoid contact with eyes or skin.

6.2 Environmental precautions

Prevent from entering drainage system.

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Avoid contact with eyes.

Avoid long lasting or intensive contact with skin. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.



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Store product closed and only in original packing. Protect from direct sunlight. Do not store over 30°C. Store in a dry place. **7.3 Specific end use(s)**

No information available at present.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Chemical Name | Fiber dust, inorga | inic | | Content %: |
|-------------------------------|--------------------|-----------|-------------------|------------|
| WEL-TWA: 2 fibres/ml, 5 mg/m3 | 3 (l:d >= 3:1, < | WEL-STEL: | | |
| 6μm) (MMMF) | | | | |
| Monitoring procedures: | - | | | |
| BMGV: | | | Other information | on: |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

| Area of application | Exposure route / Environmental compartment | Effect on health | Descripto r | Value | Unit | Note |
|---------------------|--|--------------------------------|----------------|--------|-----------------|------|
| | Environment - freshwater | | PNEC | 0,003 | mg/l | |
| | Environment - marine | | PNEC | 0,0003 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,018 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 10 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,5 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,5 | mg/kg dw | |
| | Environment - soil | | PNEC | 0,05 | mg/kg dw | |
| | Environment - oral (animal feed) | | PNEC | 11 | mg/kg | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 3,571 | mg/kg bw/day | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 0,75 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,75 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,75 | mg/m3 | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 0,75 | mg/m3 | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 8,33 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 12,25 | mg/m3 | |



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| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 8,3 | mg/kg bw/day | |
|---------------------|--------------------|--------------------------------|------|------|-----------------|--|
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 12,3 | mg/m3 | |

8.2 Exposure controls

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8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and nonmetrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Normally not necessary. With danger of contact with eyes. Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Normally not necessary. If applicable Nitrile-soaked cotton gloves with CE sign EN 374) Leather gloves

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties



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Physical state: Colour: Odour: Odour threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidising properties:

9.2 Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content:

Solid According to specification Characteristic Not determined n.a. Not determined Not determined na Not determined Not determined n.a. n.a. n.a. n.a. Not determined Not determined Not determined Insoluble Not determined Not determined Not determined n.a. Product is not explosive. No

Not determined Not determined Not determined Not determined Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity Not to be expected **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. 10.4 Conditions to avoid None known **10.5 Incompatible materials** None known **10.6 Hazardous decomposition products** No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

| Glass Fabric with SAERfix® | | | | | | |
|--------------------------------|----------|-------|------|----------|-------------|--------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal | | | | | | n.d.a. |
| route: | | | | | | |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |



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| Skin corrosion/irritation: | | n.d.a. |
|----------------------------------|--|--------|
| Serious eye | | n.d.a. |
| damage/irritation: | | |
| Respiratory or skin | | n.d.a. |
| sensitisation: | | |
| Germ cell mutagenicity: | | n.d.a. |
| Carcinogenicity: | | n.d.a. |
| Reproductive toxicity: | | n.d.a. |
| Specific target organ toxicity - | | n.d.a. |
| single exposure (STOT-SE): | | |
| Specific target organ toxicity - | | n.d.a. |
| repeated exposure (STOT- | | |
| RE): | | |
| Aspiration hazard: | | n.d.a. |
| Symptoms: | | n.d.a. |

| Reaction products of diglyc | | phenol F (DO | GEBF) and oli | gomeric phenol | diglycidyl ethers with a | crylic acid |
|--------------------------------|----------|--------------|---------------|----------------|--------------------------|--------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | OECD 423 (Acute | |
| | | | | | Oral Toxicity - Acute | |
| | | | | | Toxic Class Method) | |
| Skin corrosion/irritation: | | | | Human being | Regulation (EC) | Irritant |
| | | | | | 440/2008 B.46 (IN | |
| | | | | | VITRO SKIN | |
| | | | | | IRRITATION - | |
| | | | | | RECONSTRUCTED | |
| | | | | | HUMAN EPIDERMIS | |
| | | | | | MODEL TEST) | |
| Serious eye | | | | Rabbit | OECD 405 (Acute | Not irritant |
| damage/irritation: | | | | | Eye | |
| C C | | | | | Irritation/Corrosion) | |
| Respiratory or skin | | | | Mouse | OECD 429 (Skin | Yes (skin |
| sensitisation: | | | | | Sensitisation - Local | contact) |
| | | | | | Lymph Node Assay) | |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|--|----------|-------|---------------|----------|--|-------------|
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Irritant |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Sensitising |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Positive |
| Carcinogenicity: | | | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicit y Studies) | Negative |
| Specific target organ toxicity - repeated exposure (STOT- RE): | NOAEL | 50 | mg/kg bw/d | | | |



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| Specific target organ toxicity - repeated exposure (STOT- RE): | NOAEL | 100 | mg/kg bw/d | | |
|--|-------|-----|---------------|--|---------------------------|
| Symptoms: | | | | | diarrhoea, weight loss |

| Fiber dust, inorganic | | | | | | |
|-----------------------|----------|-------|------|----------|-------------|------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Symptoms: | | | | | | mucous |
| | | | | | | membrane |
| | | | | | | irritation |

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

| Glass Fabric with SAERfix® EP | | | | | | | | |
|-------------------------------|----------|------|-------|------|----------|-------------|--------|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes | |
| 12.1. Toxicity to fish: | | | | | | | n.d.a. | |
| 12.1. Toxicity to | | | | | | | n.d.a. | |
| daphnia: | | | | | | | | |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. | |
| 12.2. Persistence and | | | | | | | n.d.a. | |
| degradability: | | | | | | | | |
| 12.3. Bioaccumulative | | | | | | | n.d.a. | |
| potential: | | | | | | | | |
| 12.4. Mobility in soil: | | | | | | | n.d.a. | |
| 12.5. Results of PBT | | | | | | | n.d.a. | |
| and vPvB assessment | | | | | | | | |
| 12.6. Other adverse | | | | | | | n.d.a. | |
| effects: | | | | | | | | |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|----------|------|-------|------|-------------------|------------------|-------|
| 12.1. Toxicity to fish: | LC50 | 96h | 2,2 | mg/l | Brachydanio rerio | OECD 203 | |
| | | | | | | (Fish, Acute | |
| | | | | | | Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 55 | mg/l | Daphnia magna | OECD 202 | |
| | | | | | | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisation | |
| | | | | | | Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 8 | mg/l | Desmodesmus | OECD 201 | |
| | | | | | subspicatus | (Alga, Growth | |
| | | | | | | Inhibition Test) | |
| Toxicity to bacteria: | EC50 | 3h | 594 | mg/l | activated sludge | OECD 209 | |
| | | | | | | (Activated | |
| | | | | | | Sludge, | |
| | | | | | | Respiration | |
| | | | | | | Inhibition Test | |
| | | | | | | (Carbon and | |
| | | | | | | Ammonium | |
| | | | | | | Oxidation)) | |

| reaction product bisphenol A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700) | | | | | | | |
|---|----------|------|-------|------|----------|-------------|-------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |



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| 12.1. Toxicity to fish: | LC50 | 96h | 1,2 | mg/l | Oncorhynchus | U.S. EPA | |
|--------------------------|---------|-----|-----|------|---------------|--------------------|---------------|
| | | | | | mykiss | ECOTOX | |
| | | | | | | Database | |
| 12.1. Toxicity to | EC50 | 48h | 1,1 | mg/l | Daphnia magna | OECD 202 | |
| daphnia: | | | | _ | | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisation | |
| | | | | | | Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 9,4 | mg/l | Selenastrum | U.S. EPA | |
| | | | | | capricornutum | ECOTOX | |
| | | | | | | Database | |
| 12.2. Persistence and | | 28d | 5 | % | | OECD 301 F | Not readily |
| degradability: | | | | | | (Ready | biodegradable |
| | | | | | | Biodegradability - | |
| | | | | | | Manometric | |
| | | | | | | Respirometry | |
| | | | | | | Test) | |
| 12.3. Bioaccumulative | Log Pow | | 3,8 | | | | |
| potential: | | | | | | | |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

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The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

10 11 03 waste glass-based fibrous materials

Recommendation:

Pay attention to local and national official regulations. Implement substance recycling.

For contaminated packing material

Pay attention to local and national official regulations. Cleaned packaging:

Recycling

SECTION 14: Transport information

| General statements | |
|-------------------------------------|----------------|
| 14.1. UN number: | n.a. |
| Transport by road/by rail (ADR/RID) | |
| 14.2. UN proper shipping name: | |
| 14.3. Transport hazard class(es): | n.a. |
| 14.4. Packing group: | n.a. |
| Classification code: | n.a. |
| Hazard identification number: | n.a. |
| LQ: | n.a. |
| 14.5. Environmental hazards: | Not applicable |
| Tunnel restriction code: | |
| Transport by sea (IMDG-code) | |
| 14.2. UN proper shipping name: | |
| 14.3. Transport hazard class(es): | n.a. |
| 14.4. Packing group: | n.a. |
| Marine Pollutant: | n.a |
| | |



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14.5. Environmental hazards:

Transport by air (IATA) 14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.4. Packing group:

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14.5. Environmental hazards:

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC):

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

13, 15

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP): Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H317 May cause an allergic skin reaction. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. — Skin irritation Skin Sens. — Skin sensitization Aquatic Chronic — Hazardous to the aquatic environment - chronic Eve Irrit. - Eve irritation

Any abbreviations and acronyms used in this document:

AC **Article Categories** according, according to acc., acc. to ACGIHAmerican Conference of Governmental Industrial Hygienists ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds approximately approx. Art., Art. no. Article number



Not applicable

n.a.

n.a.

0%

Not applicable



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+49 5233 94 17 90



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