

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Buntlack für Außen Anthrazitgrau seiden.

| | | | |
|---------|----------------|------------|---------------------------------|
| Version | Revision Date: | Print Date | Date of last issue: - |
| 1.0 | 06.06.2019 | 14.04.2021 | Date of first issue: 06.06.2019 |

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

1.1 Product identifier

Trade name : Buntlack für Außen Anthrazitgrau seiden.

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

Use of the Sub-stance/Mixture : Water-borne coatings

Recommended restrictions on use : within adequate application - none

1.3 Details of the supplier of the safety data sheet

Company : Alpina Farben GmbH
Roßdörfer Straße 50
64372 Ober-Ramstadt

Telephone : +496154710
Telefax : +4961547170632
E-mail address Responsible/issuing person : msds@dr-rmi.com

1.4 Emergency telephone number

Emergency telephone number 1 : +49613284463 GBK GmbH

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

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Precautionary statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Prevention:

P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/ eye protection.

Response:

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

Hazardous components which must be listed on the label:

1,2-benzisothiazol-3(2H)-one
2-methyl-2H-isothiazol-3-one
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) < 15 ppm

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Polyacrylate-based lacquer, aqueous

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|------------------------------|--|---|--------------------------|
| 2-methylpentane-2,4-diol | 107-41-5 203-489-0 603-053-00-3 01-2119539582-35 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 | >= 1 - < 10 |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 203-961-6 603-096-00-8 01-2119475104-44 | Eye Irrit. 2; H319 | >= 1 - < 10 |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 220-120-9 613-088-00-6 01-2120761540-60 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Acute Tox. 2; H330 | >= 0,0025 - < 0,025 |

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| 2-methyl-2H-isothiazol-3-one | 2682-20-4 220-239-6 01-2120764690-50 | M-Factor (Acute): 1 M-Factor (Chronic): 1 Acute Tox. 2; H330 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute): 10 M-Factor (Chronic): 1 | $\geq 0,0025 - < 0,025$ |
| mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 613-167-00-5 01-2120764691-48 | Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute): 100 M-Factor (Chronic): 10 | $\geq 0,0002 - < 0,0015$ |
| Substances with a workplace exposure limit : | | | |
| manganese ferrite black spinel | 68186-94-7 269-056-3 01-2119457599-19 | | $\geq 1 - < 10$ |
| titanium dioxide | 13463-67-7 236-675-5 01-2119489379-17 | | $\geq 1 - < 10$ |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : First aider needs to protect himself.
Move out of dangerous area.
If you feel unwell, seek medical advice (show the label where possible).
Never give anything by mouth to an unconscious person.
- If inhaled : Move to fresh air.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Do NOT use solvents or thinners.
- In case of eye contact : IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue

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rinsing.
If eye irritation persists: Get medical advice/ attention.

If swallowed : If swallowed, DO NOT induce vomiting.
Clean mouth with water and drink afterwards plenty of water.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : The product itself does not burn.
Standard procedure for chemical fires.
Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not get in eyes, on skin, or on clothing.
Material can create slippery conditions.
Use protective shoes or boots with rough rubber sole.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

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Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8., For further information see Section 7 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special technical protective measures required.
For personal protection see section 8.
Use only with adequate ventilation.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container. To maintain product quality, do not store in heat or direct sunlight. Perishable if frozen.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

Storage class (TRGS 510) : 12, Non Combustible Liquids

7.3 Specific end use(s)

Specific use(s) : Please follow the technical information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|---|-------------------------------|--------------------------------------|-------------|
| manganese ferrite black spinel | 68186-94-7 | AGW (Inhalable fraction) | 0,2 mg/m ³ (Manganese) | DE TRGS 900 |
| Peak-limit: excursion factor (category) | 8;(II) | | | |
| Further information | Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission), The threshold value is based on the ele- | | | |

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| | ment content of the corresponding metal., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| | | AGW (Alveolate fraction) | 0,02 mg/m ³ (Manganese) | DE TRGS 900 |
| Peak-limit: excursion factor (category) | 8;(II) | | | |
| Further information | Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., The threshold value is based on the element content of the corresponding metal., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| | | TWA (inhalable fraction) | 0,2 mg/m ³ (Manganese) | 2017/164/EU |
| Further information | Indicative | | | |
| | | TWA (Respirable fraction) | 0,05 mg/m ³ (Manganese) | 2017/164/EU |
| Further information | Indicative | | | |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | STEL | 15 ppm 101,2 mg/m ³ | 2006/15/EC |
| Further information | Indicative | | | |
| | | TWA | 10 ppm 67,5 mg/m ³ | 2006/15/EC |
| Further information | Indicative | | | |
| | | AGW (Vapour and aerosols) | 10 ppm 67 mg/m ³ | DE TRGS 900 |
| Peak-limit: excursion factor (category) | 1.5;(I) | | | |
| Further information | Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., European Union (The EU has established a limit value: deviations in value and peak limit are possible), Sum of vapor and aerosols., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| titanium dioxide | 13463-67-7 | AGW (Inhalable fraction) | 10 mg/m ³ (Titanium dioxide) | DE TRGS 900 |
| Peak-limit: excursion factor (category) | 2;(II) | | | |
| Further information | General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). | | | |
| | | AGW (Alveolate fraction) | 1,25 mg/m ³ (Titanium dioxide) | DE TRGS 900 |
| Peak-limit: excursion factor (category) | 2;(II) | | | |
| Further information | General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of | | | |

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compounds at the work place dangerous for the health (MAK-commission).

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---------------------------|-----------|-----------------|----------------------------|-------------------------|
| 2-methylpentane-2,4-diol | Consumers | Inhalation | Long-term local effects | 25,00 mg/m ³ |
| | Consumers | Inhalation | Long-term systemic effects | 3,50 mg/m ³ |
| | Consumers | Ingestion | Long-term systemic effects | 1,00 mg/kg bw/day |
| | Consumers | Inhalation | Acute local effects | 49,00 mg/m ³ |
| | Consumers | Skin contact | Long-term systemic effects | 1,00 mg/kg bw/day |
| 2-(2-butoxyethoxy)ethanol | Consumers | Inhalation | Acute local effects | 60,70 mg/m ³ |
| | Consumers | Ingestion | Long-term systemic effects | 200,00 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 5,00 mg/kg bw/day |
| | Consumers | Skin contact | Long-term systemic effects | 2000,00 mg/kg bw/day |
| | Consumers | Inhalation | Long-term local effects | 40,50 mg/m ³ |
| titanium dioxide | Consumers | Skin contact | Long-term systemic effects | 50,00 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 40,50 mg/m ³ |
| | Consumers | Ingestion | Long-term systemic effects | 700,00 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value | |
|--------------------------|---------------------------|-------------------------------|-----------------------------|
| 2-methylpentane-2,4-diol | Soil | 0,11 mg/kg dry weight (d.w.) | |
| | Intermittent use/release | 4,29 mg/l | |
| | Secondary Poisoning | 100 mg/kg food | |
| | Fresh water sediment | 1,79 mg/kg dry weight (d.w.) | |
| | Marine water | 0,0429 mg/l | |
| | Sewage treatment plant | 20 mg/l | |
| | Marine sediment | 0,179 mg/kg dry weight (d.w.) | |
| | Fresh water | 0,429 mg/l | |
| | 2-(2-butoxyethoxy)ethanol | Fresh water | 1,1 mg/l |
| | | Fresh water sediment | 4,4 mg/kg dry weight (d.w.) |
| Intermittent use/release | | 11 mg/l | |
| Marine water | | 0,11 mg/l | |
| Marine sediment | | 0,44 mg/kg dry weight (d.w.) | |
| Sewage treatment plant | | 200 mg/l | |
| Soil | | 0,32 mg/kg dry weight (d.w.) | |
| Secondary Poisoning | 56 mg/kg food | | |

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| titanium dioxide | Sewage treatment plant | 100 mg/l |
| | Fresh water | 0,184 mg/l |
| | Soil | 100 mg/kg dry weight (d.w.) |
| | Marine water | 0,0184 mg/l |
| | Fresh water sediment | 1000 mg/kg dry weight (d.w.) |
| | Marine sediment | 100 mg/kg dry weight (d.w.) |
| | Intermittent use/release | 0,193 mg/l |

8.2 Exposure controls

Personal protective equipment

Eye protection : German trade association rules - BGR 192 Eye protection

Safety glasses

Hand protection

Material : Nitrile rubber

Glove thickness : 0,2 mm

Protective index : Class 3

Remarks : Wear suitable gloves tested to EN374. Before removing gloves clean them with soap and water.

Skin and body protection : Long sleeved clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Skin should be washed after contact.

Safety shoes

Remove and wash contaminated clothing before re-use.
During spray application: impervious clothing

Respiratory protection : No personal respiratory protective equipment normally required.

German trade association rules - BGR 190 Breathing protection

During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : No data available

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| | | |
|--|---|-------------------------------|
| Odour | : | No data available |
| Odour Threshold | : | Not relevant |
| pH | : | not determined |
| Melting point/freezing point | : | not determined |
| Boiling point/boiling range | : | not determined |
| Flash point | : | Not applicable |
| Evaporation rate | : | Not applicable |
| Flammability (solid, gas) | : | The product is not flammable. |
| Upper explosion limit / Upper flammability limit | : | not determined |
| Lower explosion limit / Lower flammability limit | : | not determined |
| Vapour pressure | : | not determined |
| Relative vapour density | : | not determined |
| Relative density | : | not determined |
| Density | : | 1,1000 g/cm ³ |
| Solubility(ies) | | |
| Water solubility | : | completely miscible |
| Partition coefficient: n-octanol/water | : | not determined |
| Auto-ignition temperature | : | not determined |
| Decomposition temperature | : | Not applicable |
| Viscosity | | |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | Not applicable |
| Oxidizing properties | : | Not applicable |

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

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10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.
Incompatible with acids and bases.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Components:

2-(2-butoxyethoxy)ethanol:

Acute oral toxicity : LD50 (Mouse): 2.410 mg/kg

LD50 (Rat): 3.305 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 2.764 mg/kg

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity : LD50 (Rat): 532 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,4 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

2-methyl-2H-isothiazol-3-one:

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Acute oral toxicity : LD50 (Rat): 120 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,145 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: see user defined free text

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

Acute oral toxicity : LD50 (Rat): 66 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 0,17 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 141 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

Product:

Remarks : Causes sensitisation.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Components:

1,2-benzisothiazol-3(2H)-one:

M-Factor (Acute aquatic tox- : 1

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icity)

M-Factor (Chronic aquatic toxicity) : 1

2-methyl-2H-isothiazol-3-one:

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

M-Factor (Acute aquatic toxicity) : 100

M-Factor (Chronic aquatic toxicity) : 10

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

Partition coefficient: n-octanol/water : log Pow: <= 0,71
Method: OECD Test Guideline 117

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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Product : .
Waste should not be disposed of via wastewater.

Contaminated packaging : Only completely emptied containers should be given for recycling.

Waste Code : used product
080112, waste paint and varnish other than those mentioned
in 08 01 11*

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.
see sections 6-8

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be generated.

REACH - List of substances subject to authorisation (Annex XIV) : None

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water contaminating class : 1 slightly water endangering
(Germany) Classification according to AwSV, Annex 1 (5.2)

Product code for laquers and : M-LW01 Water-based varnishes
paints / Giscode

. : BSW30 Coating materials, water-based, containing solvents

Volatile organic compounds : Directive 2004/42/EC
< 4 %
< 50 g/l

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H310 : Fatal in contact with skin.
H311 : Toxic in contact with skin.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H330 : Fatal if inhaled.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
2006/15/EC : Europe. Indicative occupational exposure limit values

