



# VERSAPASS® DA Black

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Issue date: 3/28/2023 Revision date: 8/24/2023 Supersedes: 3/28/2023 Version: 1.1

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

#### 1.1. Product identifier

Product form : Mixture  
Name : VERSAPASS® DA Black

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : printing inks

##### 1.2.2. Uses advised against

Restrictions on use : Other

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

Memjet Ltd.  
Trintech Building  
South County Business Park  
Leopardstown  
Dublin D18 H5H9  
Ireland  
T +353 1 678 0420  
msds@memjet.com  
www.memjet.com

#### 1.4. Emergency telephone number

Emergency number : For Hazardous Materials Incidents (spill, leak, fire, exposure, or accident) call: CHEMTREC:  
U.S. 1-800-424-9300 International: +1-703-527-3887  
CHEMTREC (24 HOURS)

| Country | Organisation/Company                                     | Address                                  | Emergency number   | Comment |
|---------|--|--|--|---------|
| Ireland | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

##### Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

#### 2.2. Label elements

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

EUH-statements : EUH208 - Contains 1,2-benzisothiazolone(2634-33-5), Sulfonated azo dye(1422649-48-6).  
May produce an allergic reaction.  
EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name  | Product identifier   | %             | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|--|---------------|---|
| Ethylene glycol substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit | CAS-No.: 107-21-1<br>EC-No.: 203-473-3<br>EC Index-No.: 603-027-00-1<br>REACH-no: 01-2119456816-28 | 5 - <10       | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373  |
| Glycerol (glycerin, glycerine) substance with national workplace exposure limit(s) (IE)                                       | CAS-No.: 56-81-5<br>EC-No.: 200-289-5<br>REACH-no: 01-2119471987-18                                | 1 - <5        | Not classified  |
| Sulfonated azo dye  | CAS-No.: 1422649-48-6<br>EC-No.: 811-858-8   | 0.1 - <0.8    | Skin Sens. 1, H317  |
| 1,2-benzisothiazolone   | CAS-No.: 2634-33-5<br>EC-No.: 220-120-9<br>EC Index-No.: 613-088-00-6                              | 0.036 – 0.043 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 |

#### Specific concentration limits:

| Name                  | Product identifier  | Specific concentration limits       |
|-----------------------|---|-------------------------------------|
| 1,2-benzisothiazolone | CAS-No.: 2634-33-5<br>EC-No.: 220-120-9<br>EC Index-No.: 613-088-00-6 | ( 0.05 ≤C < 100) Skin Sens. 1, H317 |

Comments : The remaining components are not hazardous and/or present at amounts below reportable limits  
Amounts are listed as ranges; the exact percentage of composition is withheld as a trade secret.

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Gently wash with plenty of soap and water.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

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

No special procedures required.

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## SECTION 5: Firefighting measures

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### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.  
Unsuitable extinguishing media : None known.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : No particular fire or explosion hazard.  
Explosion hazard : Product is not explosive.

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use extinguishing media appropriate for surrounding fire.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus. EN469.

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## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Take up small spills with dry chemical absorbent.

#### 6.1.2. For emergency responders

Emergency procedures : Take up small spills with dry chemical absorbent.

### 6.2. Environmental precautions

Do not discharge into drains or the environment.

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

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

### 6.4. Reference to other sections

Section 7: safe handling. Section 8: personal protective equipment. Section 13: disposal information.

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## SECTION 7: Handling and storage

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### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing.  
Hygiene measures : Wash hands, forearms and face thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container.  
Incompatible products : None known.

### 7.3. Specific end use(s)

Inkjet printing.

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## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

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

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### Ethylene glycol (107-21-1)

#### EU - Indicative Occupational Exposure Limit (IOEL)

|                                 |                                 |
|---------------------------------|---------------------------------|
| Local name                      | Ethylene glycol                 |
| IOEL TWA                        | 52 mg/m <sup>3</sup>            |
| IOEL TWA [ppm]                  | 20 ppm                          |
| IOELV STEL (mg/m <sup>3</sup> ) | 104 mg/m <sup>3</sup>           |
| IOELV STEL (ppm)                | 40 ppm                          |
| Notes                           | Skin                            |
| Regulatory reference            | COMMISSION DIRECTIVE 2000/39/EC |

#### Ireland - Occupational Exposure Limits

|  |   |
|--|---|
| Local name                             | Ethane-1,2-diol [Ethylene glycol]                               |
| OEL (8 hours ref) (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup> particulate<br>52 mg/m <sup>3</sup> vapour |
| OEL (8 hours ref) (ppm)                | 20 ppm vapour   |
| OEL (15 min ref) (mg/m <sup>3</sup> )  | 104 mg/m <sup>3</sup> vapour                                    |
| OEL (15 min ref) (ppm)                 | 40 ppm vapour   |
| Regulatory reference                   | Chemical Agents Code of Practice 2020                           |

### Glycerol (glycerin, glycerine) (56-81-5)

#### Ireland - Occupational Exposure Limits

|  |                      |
|--|----------------------|
| OEL (8 hours ref) (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup> |
|--|----------------------|

#### 8.1.2. Recommended monitoring procedures

No data available

#### 8.1.3. Air contaminants formed

No data available

#### 8.1.4. DNEL and PNEC

No data available

#### 8.1.5. Control banding

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

No special work practices are needed beyond the above recommendations under anticipated conditions of normal use.

#### 8.2.2. Personal protection equipment

##### 8.2.2.1. Eye and face protection

###### Eye protection:

None under normal use

##### 8.2.2.2. Skin protection

###### Hand protection:

nitrile rubber gloves. EN374

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

None under normal use

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### 8.2.2.4. Thermal hazards

No data available

### 8.2.3. Environmental exposure controls

No data available

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## SECTION 9: Physical and chemical properties

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### 9.1. Information on basic physical and chemical properties

|                                 |                     |
|---------------------------------|---------------------|
| Physical state                  | : Liquid            |
| Colour                          | : Black.            |
| Appearance                      | : Black. liquid.    |
| Odour                           | : Not available     |
| Odour threshold                 | : Not available     |
| Melting point                   | : Not available     |
| Freezing point                  | : Not available     |
| Boiling point                   | : Not available     |
| Flammability                    | : Not available     |
| Explosive limits                | : Not available     |
| Lower explosion limit           | : Not available     |
| Upper explosive limit (UEL)     | : Not available     |
| Flash point                     | : Not available     |
| Auto-ignition temperature       | : Not available     |
| Decomposition temperature       | : Not available     |
| pH                              | : 7.5               |
| Viscosity, kinematic            | : Not available     |
| Solubility                      | : Soluble in water. |
| Log Kow                         | : Not available     |
| Vapour pressure                 | : Not available     |
| Vapour pressure at 50°C         | : Not available     |
| Density                         | : Not available     |
| Relative density                | : Not available     |
| Relative vapour density at 20°C | : Not available     |
| Particle size                   | : Not applicable    |
| Particle size distribution      | : Not applicable    |
| Particle shape                  | : Not applicable    |
| Particle aspect ratio           | : Not applicable    |
| Particle aggregation state      | : Not applicable    |
| Particle agglomeration state    | : Not applicable    |
| Particle specific surface area  | : Not applicable    |
| Particle dustiness              | : Not applicable    |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No data available

#### 9.2.2. Other safety characteristics

No data available

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## SECTION 10: Stability and reactivity

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### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

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### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

#### Ethylene glycol (107-21-1)

LD50 Oral rat 7712 mg/kg Source: ECHA

LD50 Dermal rat > 3500 mg/kg

LC50 Inhalation rat > 2.5 mg/l/4h

LC50 Inhalation rat (dust/mist) > 2.5 mg/l/4h

LC50 Inhalation rat (vapours) > 2.5 mg/l/4h

#### Glycerol (glycerin, glycerine) (56-81-5)

LD50 Oral rat 12600 mg/kg bodyweight Animal: rat, Animal sex: female

LD50 Dermal rabbit > 10000 mg/kg

LC50 Inhalation rat (vapours) > 2.75 mg/l Source: ECHA

#### Sulfonated azo dye (1422649-48-6)

LD50 Oral rat > 2000 mg/kg bodyweight No mortality. OECD 423.

LD50 Dermal rat > 2000 mg/kg No mortality. OECD 402.

LC50 Inhalation rat (dust/mist) 5.1 mg/l/4h No mortality. OECD 403.

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: 7.5

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: 7.5

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

#### Ethylene glycol (107-21-1)

LOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight/day

NOAEL (oral, rat, 90 days) 150 mg/kg bodyweight/day kidneys

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : None known

#### 11.2.2. Other information

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

| Ethylene glycol (107-21-1) |   |
|----------------------------|---|
| LC50 fish 1                | 72860 mg/l Pimephales promelas                    |
| EC50 crustacea             | > 100 mg/l Daphnia magna                          |
| EC50 96h - Algae [1]       | 3536 mg/l green algae                             |
| EC50 96h - Algae [2]       | 6500 – 13000 mg/l Pseudokirchneriella subcapitata |
| NOEC (chronic)             | ≥ 1000 mg/l Americamysis bahia, 23 d              |
| NOEC chronic fish          | 15380 mg/l Pimephales promelas                    |
| NOEC chronic crustacea     | 8590 mg/l Ceriodaphnia sp.                        |

| Glycerol (glycerin, glycerine) (56-81-5) |   |
|--|---|
| LC50 fish 1                              | 54000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |

### 12.2. Persistence and degradability

| Ethylene glycol (107-21-1)    |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation                | > 60 % 28 days         |

| Glycerol (glycerin, glycerine) (56-81-5) |                        |
|--|------------------------|
| Persistence and degradability            | Readily biodegradable. |

### 12.3. Bioaccumulative potential

| Ethylene glycol (107-21-1) |                                |
|----------------------------|--------------------------------|
| Log Pow                    | - 1.36                         |
| Bioaccumulative potential  | Not expected to bioaccumulate. |

| Glycerol (glycerin, glycerine) (56-81-5) |                    |
|--|--------------------|
| Log Pow                                  | -1.75 Source: ECHA |

### 12.4. Mobility in soil

| Ethylene glycol (107-21-1) |                  |
|----------------------------|------------------|
| Mobility in soil           | 0.2 Source: HSDB |

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### 12.5. Results of PBT and vPvB assessment

| Component                                |   |
|--|---|
| Ethylene glycol (107-21-1)               | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Glycerol (glycerin, glycerine) (56-81-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : None known

### 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Do not dispose in household garbage. Dispose in a safe manner in accordance with local/national regulations.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

UN-No. (ADR) : Not regulated  
UN-No. (IMDG) : Not regulated  
UN-No. (IATA) : Not regulated  
UN-No. (ADN) : Not regulated  
UN-No. (RID) : Not regulated

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated  
Proper Shipping Name (IMDG) : Not regulated  
Proper Shipping Name (IATA) : Not regulated  
Proper Shipping Name (ADN) : Not regulated  
Proper Shipping Name (RID) : Not regulated

### 14.3. Transport hazard class(es)

**ADR**  
Transport hazard class(es) (ADR) : Not regulated

**IMDG**  
Transport hazard class(es) (IMDG) : Not regulated

**IATA**  
Transport hazard class(es) (IATA) : Not regulated

**ADN**  
Transport hazard class(es) (ADN) : Not regulated

**RID**  
Transport hazard class(es) (RID) : Not regulated

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### 14.4. Packing group

|                      |                 |
|----------------------|-----------------|
| Packing group (ADR)  | : Not regulated |
| Packing group (IMDG) | : Not regulated |
| Packing group (IATA) | : Not regulated |
| Packing group (ADN)  | : Not regulated |
| Packing group (RID)  | : Not regulated |

### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

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

| EU restriction list (REACH Annex XVII) |  |   |
|--|--|---|
| Reference code                         | Applicable on  | Entry title or description  |
| 3(b)                                   | Ethylene glycol ; 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate ; Azo Dye | 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)                                   | 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate                             | 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   |

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

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

#### 15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. Chemical safety assessment

No data available

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### SECTION 16: Other information

| Indication of changes |              |        |          |
|-----------------------|--------------|--------|----------|
| Section               | Changed item | Change | Comments |
| 9.1                   | pH           | Added  |          |

| Abbreviations and acronyms:   |  |
|---|--|
| ACGIH (American Conference of Government Industrial Hygienists)                             |  |
| ATE Acute Toxicity Estimate   |  |
| CAS (Chemical Abstracts Service) number   |  |
| CLP: Classification, Labelling, Packaging.  |  |
| EC50: Environmental Concentration associated with a response by 50% of the test population. |  |
| GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).              |  |
| LD50: Lethal Dose for 50% of the test population  |  |
| TWA: Time Weighted Average  |  |

Data sources : ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. Manufacturer Information. US National Library of Medicine National Institutes of Health Haz-Map. Accessed at <http://hazmap.nlm.nih.gov>.

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4  |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1  |
| EUH208                              | Contains 1,2-benzisothiazolone(2634-33-5), Sulfonated azo dye(1422649-48-6). May produce an allergic reaction. |
| EUH210                              | Safety data sheet available on request.  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1  |
| H302                                | Harmful if swallowed.  |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.   |
| H318                                | Causes serious eye damage.   |
| H373                                | May cause damage to organs through prolonged or repeated exposure.   |
| H400                                | Very toxic to aquatic life.  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2   |

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.