

VERSAPASS™ DN Magenta

Safety Data Sheet

according to Regulation (EU) 2015/830



Date of issue: 11/7/2016 Revision date: 6/27/2018 Supersedes: 6/15/2018 Version: 2.1

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

1.1. Product identifier

Product form : Mixture
Product name : VERSAPASS™ DN Magenta

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 : Inkjet printing
Function or use category : Ink

1.2.2. Uses advised against

Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

Memjet, Ltd
61-62 Fitzwilliam Lane
Dublin 2, 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 |
|----------------|--|-----------------------------------|------------------|---------|
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning
Hazardous ingredients : Proprietary magenta dye; 1,2-benzisothiazolone
Hazard statements (CLP) : H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP)

: P261 - Avoid breathing mist, spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

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] |
|--|--|--------------|---|
| Water | (CAS-No.) 7732-18-5 (EC-No.) 231-791-2 | 75 - 85 | Not classified |
| Glycerol | (CAS-No.) 56-81-5 (EC-No.) 200-289-5 | 1 - 5 | Not classified |
| Ethoxylated acetylenic diols | (CAS-No.) 1606-85-5 (EC-No.) 216-526-0 | 1 - 5 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 |
| Proprietary magenta dye | (CAS-No.) not assigned (EC-No.) 445-480-6 | 1 - 5 | Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate | (CAS-No.) 9014-85-1 (EC-No.) 500-022-5 | 0.1 - 1 | Eye Dam. 1, H318 Aquatic Chronic 3, H412 |
| 1,2-benzisothiazolone | (CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6 | 0.036 - 0.04 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 |

Specific concentration limits:

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

Full text of H-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.

Symptoms/effects after eye contact

: Causes serious eye irritation.

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

No special procedures required.

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SECTION 5: Firefighting measures

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/flammable resistant/retardant clothing. Wear a self contained breathing apparatus. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

Protective equipment : Avoid contact with skin and eyes. Wear suitable gloves. Butyl rubber gloves. natural rubber gloves.

Emergency procedures : Evacuate unnecessary personnel. Stop leak without risks if possible.

6.1.2. For emergency responders

Protective equipment : Avoid all eye and skin contact and do not breathe vapour and mist. Wear suitable protective clothing and gloves. Butyl rubber. rubber. Use eye protection according to EN 166, designed to protect against liquid splashes.

Emergency procedures : Stop leak if safe to do so.

6.2. Environmental precautions

Do not discharge into drains or the environment.

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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. Store away from heat.

7.3. Specific end use(s)

Inkjet printing.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Glycerol (56-81-5) | | |
|--------------------|----------------------------------|--|
| Belgium | Limit value (mg/m³) | 10 mg/m³ |
| Belgium | Remark (BE) | (brouillard) |
| Czech Republic | Local name | Glycerol, mlha |
| Czech Republic | Expoziční limity (PEL) (mg/m³) | 10 mg/m³ |
| Czech Republic | Expoziční limity (PEL) (ppm) | 2.44 ppm |
| Czech Republic | Expoziční limity (NPK-P) (mg/m³) | 15 mg/m³ |
| Czech Republic | Expoziční limity (NPK-P) (ppm) | 3.66 ppm |
| Czech Republic | Regulatory reference | Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 93/2012 Sb., 9/2013 Sb.) |
| Finland | Local name | Glyseroli |

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| Glycerol (56-81-5) | | |
|--------------------|---------------------------|---|
| Finland | HTP-arvo (8h) (mg/m³) | 20 mg/m³ |
| Finland | Regulatory reference | HTP-ARVOT 2016 (Sosiaali- ja terveysministeriö) |
| Ireland | OEL (8 hours ref) (mg/m³) | 10 mg/m³ |
| Slovakia | Local name | Glycerín |
| Slovakia | NPHV (priemerná) (mg/m³) | 10 mg/m³ |
| Slovakia | Regulatory reference | Nariadenie vlády č. 355/2006 Z. z. (Zmena: 300/2007 Z.z.; Zmena: 471/2011 Z.z.) |
| Spain | Local name | Glicerina |
| Spain | VLA-ED (mg/m³) | 10 mg/m³ |
| Spain | Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2018. INSHT |
| United Kingdom | WEL TWA (mg/m³) | 10 mg/m³ |
| Switzerland | VME (mg/m³) | 50 mg/m³ |
| Switzerland | KZGW (mg/m³) | 100 mg/m³ |
| Switzerland | Remark (CH) | (inhalable aerosol) |

8.2. Exposure controls

Appropriate engineering controls:

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

Personal protective equipment:

Safety glasses. Gloves.

Hand protection:

Wear suitable gloves. Butyl rubber gloves. natural rubber gloves EN 374

Eye protection:

Use splash goggles when eye contact due to splashing is possible. EN166

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------|
| Physical state | : Liquid |
| Appearance | : magenta. Liquid. |
| Colour | : Magenta. |
| Odour | : odourless. |
| Odour threshold | : No data available |
| pH | : 7.1 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |

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| | |
|----------------------------------|---------------------|
| Relative vapour density at 20 °C | : > 1 |
| Relative density | : No data available |
| Solubility | : No data available |
| 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 |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

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.

10.4. Conditions to avoid

Keep/Store away from incompatible materials.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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)

Glycerol (56-81-5)

| | |
|---------------|------------|
| LD50 oral rat | 5570 mg/kg |
|---------------|------------|

Ethoxylated acetylenic diols (1606-85-5)

| | |
|---------------|---------------------------------------|
| LD50 oral rat | 1230 mg/kg (Based on similar product) |
|---------------|---------------------------------------|

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)

| | |
|---------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
|---------------|--------------|

| | |
|-----------------|--------------|
| LD50 dermal rat | > 2000 mg/kg |
|-----------------|--------------|

| | |
|----------------------------|-------------|
| LC50 inhalation rat (mg/l) | > 2 mg/l/4h |
|----------------------------|-------------|

Water (7732-18-5)

| | |
|---------------|-------------------------|
| LD50 oral rat | > 5000 mg/kg bodyweight |
|---------------|-------------------------|

| | |
|--------------------|--------------|
| LD50 dermal rabbit | > 5000 mg/kg |
|--------------------|--------------|

| | |
|----------------------------|-------------|
| LC50 inhalation rat (mg/l) | > 6 mg/l/4h |
|----------------------------|-------------|

| | |
|---|-------------|
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | > 6 mg/l/4h |
|---|-------------|

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

Serious eye damage/irritation : Causes serious eye irritation.

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

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)

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Ethoxylated acetylenic diols (1606-85-5)

| | |
|------------|-------------------------------------|
| IARC group | Not listed in carcinogenicity class |
|------------|-------------------------------------|

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)

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)

| | |
|--|----------------------|
| NOAEL (subacute, oral, animal/male, 28 days) | 200 mg/kg bodyweight |
|--|----------------------|

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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long lasting harmful effects to aquatic life.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Glycerol (56-81-5)

| | |
|-------------|--------------|
| LC50 fish 1 | 68 - 72 mg/l |
|-------------|--------------|

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)

| | |
|-------------|-------------------------------|
| LC50 fish 1 | 52.5 mg/l juvenile S. maximus |
|-------------|-------------------------------|

| | |
|----------------|----------|
| EC50 Daphnia 1 | 166 mg/l |
|----------------|----------|

| | |
|---------------|---------|
| ErC50 (algae) | 15 mg/l |
|---------------|---------|

| | |
|--------------------|--------|
| NOEC chronic algae | 1 mg/l |
|--------------------|--------|

12.2. Persistence and degradability

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| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

Glycerol (56-81-5)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)

| | |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
|-------------------------------|----------------------------|

12.3. Bioaccumulative potential

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)

| | |
|-------------------------------------|------|
| Bioconcentration factor (BCF REACH) | < 24 |
|-------------------------------------|------|

| | |
|---------------------------|--------------------------------|
| Bioaccumulative potential | Not expected to bioaccumulate. |
|---------------------------|--------------------------------|

12.4. Mobility in soil

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| | |
|----------------|--------------------------------------|
| Ecology - soil | No additional information available. |
|----------------|--------------------------------------|

12.5. Results of PBT and vPvB assessment

Component

| | |
|--------------------|---|
| Glycerol (56-81-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
|--------------------|---|

12.6. Other adverse effects

Additional information : Do not discharge into drains or the environment

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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 / RID / IMDG / IATA / ADN

14.1. UN 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. |
|----------------------------------|------------------|

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

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

| | |
|--|--|
| The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006: | |
| 3(c) 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 | VERSAPASS™ DN Magenta |
| 3(b) 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 | VERSAPASS™ DN Magenta - Ethoxylated acetylenic diols |
| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 | Ethoxylated acetylenic diols |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes: | | | |
|------------------------|--|----------|---|
| Section | Changed item | Change | Comments |
| | Supersedes | Added | |
| | Revision date | Modified | |
| 3 | Composition/information on ingredients | Modified | display 1,2-benzisothiazolone component |

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. |

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| | |
|--|--|
| | 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 Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| H302 | Harmful if swallowed. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|------|--------------------|
| Eye Irrit. 2 | H319 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

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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