



VERSAPASS® DA W Cyan

Safety Data Sheet

Industry Code of Practice on Chemicals Classification and Hazard Communication
Issue date: 2/16/2024 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Name : VERSAPASS® DA W Cyan
Product group : Trade product

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
16770 W Bernardo Drive
San Diego, CA 92127
USA

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)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- : see section 16

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects. Contains 1,2-benzisothiazolone(2634-33-5). May produce an allergic reaction.

2.2. Label elements

Signal word : -
Hazard statements : H412 - Harmful to aquatic life with long lasting effects.

2.3. Other hazards

Other hazards not contributing to the classification : No additional hazards have been identified.

Contains no PBT and/or vPvB substances $\geq 0.1\%$

| Component | |
|--|---|
| Ethylene glycol (107-21-1) | This substance/mixture does not meet the PBT This substance/mixture does not meet the vPvB |
| Glycerol (glycerin, glycerine) (56-81-5) | This substance/mixture does not meet the PBT This substance/mixture does not meet the vPvB |

The mixture does not contain substance(s) identified as having endocrine disrupting properties at a concentration equal to or greater than 0,1 %

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification |
|--|---------------------|---------|---|
| Ethylene glycol | CAS-No.: 107-21-1 | 5 - <10 | Acute Tox. 4 (Oral), H302 STOT RE 2, H373 |
| Direct Blue 199 | CAS-No.: 12222-04-7 | 1 - 5 | Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Chronic 2, H411 |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate | CAS-No.: 9014-85-1 | 0.1 - 1 | Skin Corr./Irrit. Not classified Eye Dam. 1, H318 Aquatic Chronic 3, H412 |
| MOPS | CAS-No.: 1132-61-2 | < 0.3 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |
| 1,2-benzisothiazolone | CAS-No.: 2634-33-5 | < 0.1 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 |
| Sodium hydroxide | CAS-No.: 1310-73-2 | < 0.1 | Skin Corr. 1A, H314 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|-----------------------|--------------------|---|
| 1,2-benzisothiazolone | CAS-No.: 2634-33-5 | (0.05 ≤ C < 100) Skin Sens. 1, H317 |
| Sodium hydroxide | CAS-No.: 1310-73-2 | (0.5 ≤ C < 2) Eye Irrit. 2, H319 (0.5 ≤ C < 2) Skin Irrit. 2, H315 (2 ≤ C < 5) Skin Corr. 1B, H314 (5 ≤ C < 100) Skin Corr. 1A, H314 |

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- : 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 : No significant signs or symptoms indicative of any health hazard are expected to occur.

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/flame resistant/retardant clothing. Wear a self contained breathing apparatus.

SECTION 6: Accidental release measures

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.

SECTION 7: Handling and storage

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Ethylene glycol(107-21-1)

| | |
|--------------------------------------|----------------------------------|
| Ceiling limit airborne concentration | 100 mg/m ³ (39.4 ppm) |
|--------------------------------------|----------------------------------|

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| Glycerol (glycerin, glycerine)(56-81-5) | |
|---|----------------------|
| TWA - Mist | 10 mg/m ³ |
| Ethylene glycol(107-21-1) | |
| Ceiling limit airborne concentration | 2 mg/m ³ |

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.

8.2.2.3. Respiratory protection

Respiratory protection:

None under normal use.

8.2.2.4. Thermal hazards

No data available

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------------------|-----------------|
| Physical state | : Liquid |
| Colour | : Blue |
| Appearance | : Blue, 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 |

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| | |
|---------------------------------|--------------------|
| pH | : > 7.1 |
| 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 |

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

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

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

| | |
|-----------------------------|---|
| 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 |
| 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 | > 2 mg/l/4h |

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| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: > 7.1 |
| Serious eye damage/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: > 7.1 |
| 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) |

MOPS (1132-61-2)

| | |
|------------------------|---|
| STOT-single exposure | May cause respiratory irritation. |
| 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. |

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

| | |
|--|------------------------------------|
| NOAEL (oral, rat, 90 days) | ≈ 500 mg/kg bodyweight Animal: rat |
| NOAEL (subacute, oral, animal/male, 28 days) | 200 mg/kg bodyweight |

Direct Blue 199 (12222-04-7)

| | |
|------------------------|--|
| 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)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) having endocrine disrupting properties at a concentration equal to or greater than 0,1 %

11.2.2. Other information

Other information : Likely routes of exposure: inhalation, skin and eye.

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) : Harmful to aquatic life with long lasting effects.

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. |

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| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1) | |
|---|--|
| LC50 fish 1 | 52.5 mg/l juvenile <i>S. maximus</i> |
| LC50 - Fish [2] | 52.5 mg/l Test organisms (species): other: |
| EC50 crustacea | 166 mg/l |
| EC50 72h - Algae [1] | 82 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>) |
| ErC50 algae | 15 mg/l |
| NOEC chronic algae | 1 mg/l |

12.2. Persistence and degradability

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

| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1) | |
|---|----------------------------|
| Persistence and degradability | Not readily biodegradable. |

| MOPS (1132-61-2) | |
|-------------------------------|--------------------------|
| Persistence and degradability | Not expected to persist. |

12.3. Bioaccumulative potential

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

| 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. |

| MOPS (1132-61-2) | |
|---------------------------|--------------------------------|
| Bioaccumulative potential | Not expected to bioaccumulate. |

12.4. Mobility in soil

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

12.5. 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. |

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SECTION 14: Transport information

In accordance with IMDG / IATA

14.1. UN number or ID number

UN-No. (IMDG) : Not regulated

UN-No. (IATA) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (IMDG) : Not regulated

Proper Shipping Name (IATA) : Not regulated

14.3. Transport hazard class(es)

IMDG

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

IATA

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

14.4. Packing group

Packing group (IMDG) : Not regulated

Packing group (IATA) : 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

National regulations

No data available

SECTION 16: Other information

Abbreviations and acronyms:

| | |
|--|---|
| | ACGIH (American Conference of Government Industrial Hygienists) |
| | 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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Abbreviations and acronyms:

| | |
|--|--|
| | GHS: Globally Harmonized System (of Classification and Labeling of Chemicals). |
| | LD50: Lethal Dose for 50% of the test population |
| | ATE: Acute Toxicity Estimate |
| | 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>. Component Supplier SDSs.

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 |
| 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 |
| H302 | Harmful if swallowed. |
| 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. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Corr./Irrit. Not classified | Skin corrosion/irritation Not classified |
| 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 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| | | |
|-------------------|------|--------------------|
| Aquatic Chronic 3 | H412 | Calculation method |
|-------------------|------|--------------------|

Safety Data Sheet (SDS)

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.



VERSAPASS® DA W Cyan

Helaian Data Keselamatan

Industry Code of Practice on Chemicals Classification and Hazard Communication
Tarikh dikeluarkan: 16/02/2024 Versi: 1.0

BAHAGIAN 1: Tanda pengenalan bahan/campuran dan syarikat/pembuat

1.1. Pengecam produk

Bentuk produk : Campuran
Nama : VERSAPASS® DA W Cyan
Kumpulan produk : Hasil perdagangan

1.2. Penggunaan yang dikenal pasti relevan bagi bahan atau campuran dan yang tidak digalakkan

1.2.1. Penggunaan yang dikenal pasti relevan

Penggunaan bahan/campuran : Dakwat percetakan

1.2.2. Penggunaan-penggunaan yang tidak digalakkan

Pembatasan penggunaan : Lain

1.3. Butir-butir pembekal helaian data keselamatan

Memjet
16770 W Bernardo Drive
San Diego, CA 92127
USA

1.4. Nombor panggilan kecemasan

Nombor kecemasan : Untuk Insiden Bahan Berbahaya (tumpahan, kebocoran, kebakaran, pendedahan atau kemalangan) hubungi: CHEMTREC: U.S. 1-800-424-9300 International: +1-703-527-3887 CHEMTREC (24 HOURS)

BAHAGIAN 2: Pengenalan bahaya

2.1. Klasifikasi bahan atau campuran

Berbahaya kepada persekitaran akuatik – Bahaya Kronik, Kategori 3 H412
Teks penuh kenyataan H- : lihat seksyen 16

Kesan yang buruk kepada fizikokimia, kesihatan manusia dan persekitaran

Memudaratkan kepada hidupan akuatik dengan kesan kekal berpanjangan. Mengandungi 1,2-benzisothiazolone(2634-33-5). Boleh menimbulkan tindak balas alergi.

2.2. Unsur label

Kata isyarat : -
Tanda-tanda bahaya : H412 - Memudaratkan kepada hidupan akuatik dengan kesan kekal berpanjangan.

2.3. Lain-lain bahaya

Bahaya lain yang tidak termasuk dalam pengelasan : Tiada bahaya tambahan telah dikenalpasti.

Tidak mengandungi bahan PBT dan/atau vPvB \geq 0.1%

| Komponen | |
|--|---|
| Ethylene glycol (107-21-1) | Bahan/campuran ini tidak memenuhi kriteria PBT Bahan/campuran ini tidak memenuhi kriteria vPvB |
| Glycerol (glycerin, glycerine) (56-81-5) | Bahan/campuran ini tidak memenuhi kriteria PBT Bahan/campuran ini tidak memenuhi kriteria vPvB |

Campuran ini tidak mengandungi bahan yang dikenal pasti mempunyai sifat mengganggu endokrin pada kepekatan yang sama atau lebih daripada 0.1 %

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Helaian Data Keselamatan

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BAHAGIAN 3: Komposisi/maklumat tentang bahan-bahan

3.1. Bahan

Tidak berkaitan

3.2. Campuran

| Nama | Pengecam produk | % | Klasifikasi |
|--|---------------------|--------------|---|
| Ethylene glycol | No.-CAS: 107-21-1 | 5 - <10 | Toks. Akut 4 (Oral), H302 STOT RE 2, H373 |
| Direct Blue 199 | No.-CAS: 12222-04-7 | 1 - 5 | Toks. Akut 4 (Oral), H302 STOT RE 2, H373 Akuatik Kronik 2, H411 |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate | No.-CAS: 9014-85-1 | 0.1 - 1 | Kks./Kreng. Kulit Tidak terkelas Kros. Mata 1, H318 Akuatik Kronik 3, H412 |
| MOPS | No.-CAS: 1132-61-2 | < 0.3 | Kreng. Kulit 2, H315 Kreng. Mata 2, H319 STOT SE 3, H335 |
| 1,2-benzisothiazolone | No.-CAS: 2634-33-5 | 0.036 – 0.04 | Toks. Akut 4 (Oral), H302 Kreng. Kulit 2, H315 Kros. Mata 1, H318 Pem. Kulit 1, H317 Akuatik Akut 1, H400 |
| Sodium hydroxide | No.-CAS: 1310-73-2 | < 0.1 | Kks. Kulit 1A, H314 |

Had-had kepekatan khusus:

| Nama | Pengecam produk | Had-had kepekatan khusus |
|-----------------------|--------------------|---|
| 1,2-benzisothiazolone | No.-CAS: 2634-33-5 | (0.05 ≤ C < 100) Skin Sens. 1, H317 |
| Sodium hydroxide | No.-CAS: 1310-73-2 | (0.5 ≤ C < 2) Eye Irrit. 2, H319 (0.5 ≤ C < 2) Skin Irrit. 2, H315 (2 ≤ C < 5) Skin Corr. 1B, H314 (5 ≤ C < 100) Skin Corr. 1A, H314 |

Nota : Komponen selebihnya tidak berbahaya dan / atau hadir pada jumlah di bawah had yang boleh dilaporkan.
Amaun disenaraikan sebagai julat; Peratusan komposisi yang tepat ditahan sebagai rahsia perdagangan.

Teks penuh kenyataan H- : lihat seksyen 16

BAHAGIAN 4: Langkah-langkah pertolongan cemas

4.1. Langkah-langkah bantuan kecemasan

Pertolongan cemas selepas penyedutan : Jika dihidu dan jika bernafas sukar, keluarkan mangsa ke udara bersih dan biarkan berehat dalam kedudukan yang selesa untuk bernafas.

Pertolongan cemas selepas terkena kulit : Basuh perlahan-lahan dengan sabun dan air yang banyak.

Pertolongan cemas selepas terkena mata : JIKA TERKENA MATA: Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas.

4.2. Gejala dan kesan akut dan tertangguh yang paling penting

Gejala/kesan : Tiada tanda atau gejala ketara yang menunjukkan sebarang bahaya kesihatan dijangka berlaku.

4.3. Petunjuk bagi keperluan perhatian perubatan segera dan rawatan khas, jika ada

Tiada prosedur khas yang diperlukan.

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Helaian Data Keselamatan

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BAHAGIAN 5: Langkah-langkah pemadaman kebakaran

5.1. Bahan memadamkan api

Bahan memadamkan api yang sesuai : Gunakan media pemadam yang sesuai bagi api sekelilingnya.
Media pemadam tidak sesuai : Tiada yang diketahui.

5.2. Bahaya khusus daripada bahan kimia

Bahaya kebakaran : Tiada bahaya kebakaran atau letupan yang tertentu.
Bahaya letupan : Produk tidak letupan.

5.3. Nasihat untuk anggota bomba

Langkah-langkah membasmi kebakaran : Berhati-hati apabila berjuang kebakaran kimia. Gunakan media pemadam yang sesuai bagi api sekelilingnya.
Perlindungan semasa kebakaran : Jangan memasuki kawasan api tanpa peralatan perlindungan yang betul, termasuk perlindungan pernafasan. Pakai api / api pakaian tahan / perencat. Pakai alat pernafasan bebas yang.

BAHAGIAN 6: Langkah-langkah pelepasan tidak sengaja

6.1. Tatacara perlindungan diri, kelengkapan pelindung, dan kecemasan

6.1.1. Untuk kakitangan bukan kecemasan

Tatacara kecemasan : Ambil tumpahan kecil dengan penyerap kimia kering.

6.1.2. Untuk pasukan penyelamat

Tatacara kecemasan : Ambil tumpahan kecil dengan penyerap kimia kering.

6.2. Langkah melindungi alam sekitar

Jangan buang ke longkang atau persekitaran.

6.3. Kaedah dan bahan untuk pembendungan dan pembersihan

Langkah-langkah pembersihan : Tumpahan cecair yang sedikit: pungut dengan bahan penyerap tidak boleh bakar, dan kaut ke dalam bekas untuk dilupuskan.

6.4. Rujukan kepada seksyen lain

Seksyen 7: Pengendalian selamat. Seksyen 8: Peralatan perlindungan diri. Seksyen 13: Maklumat pelupusan.

BAHAGIAN 7: Pengendalian dan penyimpanan

7.1. Langkah berjaga-jaga untuk pengendalian yang selamat

Langkah berjaga-jaga untuk pengendalian yang selamat : Elakkan bersentuhan dengan kulit, mata dan pakaian.
Langkah-langkah higien : Basuh kedua tangan, lengan dan muka sebersih-bersihnya selepas mengendalikan bahan.

7.2. Keadaan penyimpanan selamat, termasuk apa-apa ketakserasian

Keadaan penyimpanan : Simpan dalam bekas yang asal.
Produk tak serasi : Tiada yang diketahui.

7.3. Penggunaan(-penggunaan) akhir khusus

Pencetakan inkjet.

BAHAGIAN 8: Kawalan pendedahan dan perlindungan diri

8.1. Parameter kawalan

8.1.1 Nilai pendedahan pekerjaan nasional dan had biologi

Ethylene glycol(107-21-1)

| | |
|-----------------------------------|----------------------------------|
| Had siling kepekatan bawaan udara | 100 mg/m ³ (39.4 ppm) |
|-----------------------------------|----------------------------------|

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Helaian Data Keselamatan

Industry Code of Practice on Chemicals Classification and Hazard Communication

| Glycerol (glycerin, glycerine)(56-81-5) | |
|---|----------------------|
| TWA - kabus | 10 mg/m ³ |
| Ethylene glycol(107-21-1) | |
| Had siling kepekatan bawaan udara | 2 mg/m ³ |

8.1.2. Prosedur pemantauan yang disyorkan

Tiada maklumat tambahan didapati

8.1.3. Bahan cemar udara terbentuk

Tiada maklumat tambahan didapati

8.1.4. DNEL dan PNEC

Tiada maklumat tambahan didapati

8.1.5. Jaluran kawalan

Tiada maklumat tambahan didapati

8.2. Kawalan pendedahan

8.2.1. Kawalan kejuruteraan yang sesuai

Kawalan kejuruteraan yang sesuai:

Tiada amalan kerja khas diperlukan di luar cadangan di atas di bawah keadaan yang dijangka penggunaan normal.

8.2.2. Peralatan perlindungan diri

8.2.2.1. Eye and face protection

Perlindungan mata:

Tiada di bawah penggunaan biasa.

8.2.2.2. Perlindungan kulit

Perlindungan tangan:

sarung tangan getah nitril.

8.2.2.3. Perlindungan pernafasan

Perlindungan pernafasan:

Tiada di bawah penggunaan biasa.

8.2.2.4. Terma berbahaya

Tiada maklumat tambahan didapati

8.2.3. Kawalan pendedahan alam sekitar

Tiada maklumat tambahan didapati

BAHAGIAN 9: Sifat fizikal dan kimia

9.1. Maklumat penting tentang sifat-sifat fizikal dan kimia

| | |
|--------------------------|------------------|
| Keadaan fizikal | : Cecair |
| Warna | : Biru |
| Rupa | : Biru, cecair |
| Bau | : Tiada terdapat |
| Ambang bau | : Tiada terdapat |
| Takat lebur | : Tiada terdapat |
| Takat beku | : Tiada terdapat |
| Takat didih | : Tiada terdapat |
| Kemudahbakaran | : Tiada terdapat |
| Had letupan | : Tiada terdapat |
| Had letupan bawah | : Tiada terdapat |
| Had letupan tinggi (UEL) | : Tiada terdapat |
| Takat kilat | : Tiada terdapat |
| Suhu pengautocucuhan | : Tiada terdapat |
| Suhu penguraian | : Tiada terdapat |

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Helaian Data Keselamatan

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| | |
|----------------------------------|-------------------------|
| pH | : > 7.1 |
| Kelikatan, kinematik | : Tiada terdapat |
| Kelarutan | : Terlarut di dalam air |
| Log Kow | : Tiada terdapat |
| Tekanan wap | : Tiada terdapat |
| Tekanan wap pada 50°C | : Tiada terdapat |
| Ketumpatan | : Tiada terdapat |
| Ketumpatan bandingan | : Tiada terdapat |
| Ketumpatan wap relatif pada 20°C | : Tiada terdapat |
| Particle size | : Tidak berkaitan |
| Particle size distribution | : Tidak berkaitan |
| Particle shape | : Tidak berkaitan |
| Particle aspect ratio | : Tidak berkaitan |
| Particle aggregation state | : Tidak berkaitan |
| Particle agglomeration state | : Tidak berkaitan |
| Particle specific surface area | : Tidak berkaitan |
| Particle dustiness | : Tidak berkaitan |

9.2. Maklumat lain

9.2.1. Maklumat berkenaan dengan kelas fizikal bahaya

Tiada maklumat tambahan didapati

9.2.2. Ciri keselamatan lain

Tiada maklumat tambahan didapati

BAHAGIAN 10: Kestabilan dan kereaktifan

10.1. Kereaktifan

Tiada tindak balas berbahaya yang diketahui.

10.2. Kestabilan kimia

Produk ini stabil dalam keadaan pengendalian dan penyimpanan normal.

10.3. Kemungkinan tindak balas berbahaya

Pempolimeran berbahaya tidak akan berlaku.

10.4. Keadaan yang perlu dielakkan

Tiada yang diketahui.

10.5. Bahan tidak serasi

Tiada yang diketahui.

10.6. Produk penguraian berbahaya

Tiada maklumat tambahan didapati

BAHAGIAN 11: Maklumat toksikologi

11.1. Informasi tentang kelas bahaya seperti yang didefinisikan dalam Peraturan (EC) No 1272/2008

| | |
|------------------------------|---|
| Ketoksikan akut (oral) | : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi) |
| Ketoksikan akut (kulit) | : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi) |
| Ketoksikan akut (penyedutan) | : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi) |

| Ethylene glycol (107-21-1) | |
|---------------------------------------|-------------------------|
| LD50 Mulut tikus | 7712 mg/kg Source: ECHA |
| LD50 kulit tikus | > 3500 mg/kg |
| LC50 Penyedutan tikus | > 2.5 mg/l/4h |
| LC50 Penyedutan tikus (habuk / kabus) | > 2.5 mg/l/4h |

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Helaian Data Keselamatan

Industry Code of Practice on Chemicals Classification and Hazard Communication

| Ethylene glycol (107-21-1) | |
|--|--|
| LC50 Penyedutan tikus (wap) | > 2.5 mg/l/4h |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1) | |
| LD50 Mulut tikus | > 5000 mg/kg |
| LD50 kulit tikus | > 2000 mg/kg |
| LC50 Penyedutan tikus | > 2 mg/l/4h |
| Kakisan/ kerengsaan kulit | : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi) pH: > 7.1 |
| Kerosakan/ kerengsaan mata yang serius | : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi) pH: > 7.1 |
| Pemekaan pernafasan atau kulit | : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi) |
| Kemutagenan sel germa | : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi) |
| Kekarsinogenan | : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi) |
| Ketoksikan pembiakan | : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi) |
| Ketoksikan organ sasaran khusus (pendedahan tunggal) | : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi) |
| MOPS (1132-61-2) | |
| Ketoksikan organ sasaran khusus (pendedahan tunggal) | Boleh menyebabkan kerengsaan pernafasan. |
| Ketoksikan organ sasaran khusus (pendedahan berulang) | : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi) |
| Ethylene glycol (107-21-1) | |
| LOAEL (melalui mulut, tikus, 90 hari) | 1000 mg/kg berat badan/hari |
| NOAEL (melalui mulut, tikus, 90 hari) | 150 mg/kg berat badan/hari buah pinggang |
| Ketoksikan organ sasaran khusus (pendedahan berulang) | Boleh menyebabkan kerosakan organ melalui pendedahan berpanjangan atau berulang. |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1) | |
| NOAEL (melalui mulut, tikus, 90 hari) | ≈ 500 mg/kg berat badan Animal: rat |
| NOAEL (subakut, melalui mulut, haiwan/jantan, 28 hari) | 200 mg/kg berat badan |
| Direct Blue 199 (12222-04-7) | |
| Ketoksikan organ sasaran khusus (pendedahan berulang) | Boleh menyebabkan kerosakan organ melalui pendedahan berpanjangan atau berulang. |
| Bahaya aspirasi | : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi) |

11.2. Maklumat mengenai bahaya lain

11.2.1. Sifat mengganggu endokrin

Kesan kesihatan yang buruk disebabkan oleh sifat mengganggu endokrin : Campuran ini tidak mengandungi bahan yang mempunyai sifat mengganggu endokrin, atau tidak dikenal pasti mempunyai sifat mengganggu endokrin pada kepekatan yang sama atau lebih daripada 0.1 %

11.2.2. Maklumat lain

Maklumat lain : Jalan kemungkinan berlakunya pendedahan: penyedutan, kulit dan mata

BAHAGIAN 12: Maklumat ekologi

12.1. Ketoksikan

Ketoksikan akuatik akut : Tak terkelas (Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi)
Ketoksikan akuatik kronik : Memudaratkan kepada hidupan akuatik dengan kesan kekal berpanjangan.

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Helaian Data Keselamatan

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| Ethylene glycol (107-21-1) | |
|---|---|
| LC50 ikan 1 | 72860 mg/l Pimephales promelas |
| EC50 crustacea | > 100 mg/l Daphnia magna |
| EC50 96h - Ganggang [1] | 3536 mg/l green algae |
| EC50 96h - Ganggang [2] | 6500 – 13000 mg/l Pseudokirchneriella subcapitata |
| NOEC (kronik) | ≥ 1000 mg/l Americamysis bahia, 23 d |
| NOEC kronik ikan | 15380 mg/l Pimephales promelas |
| NOEC kronik krustasea | 8590 mg/l Ceriodaphnia sp. |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1) | |
| LC50 ikan 1 | 52.5 mg/l juvenile S. maximus |
| LC50 - Ikan [2] | 52.5 mg/l Test organisms (species): other: |
| EC50 crustacea | 166 mg/l |
| EC50 72h - Ganggang [1] | 82 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| Alga ErC50 | 15 mg/l |
| NOEC kronik alga | 1 mg/l |

12.2. Keselajaran dan keterdegradan

| Ethylene glycol (107-21-1) | |
|---|---------------------------------|
| Keselajaran dan keterdegradan | Terbiodegradasi dengan mudah. |
| Biodegradasi | > 60 % 28 hari |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1) | |
| Keselajaran dan keterdegradan | Tidak sedia terbiodegradasikan. |
| MOPS (1132-61-2) | |
| Keselajaran dan keterdegradan | Not expected to persist. |

12.3. Potensi bioterkumpul

| Ethylene glycol (107-21-1) | |
|---|-------------------------------|
| Log Pow | - 1.36 |
| Potensi bioterkumpul | Tidak dijangka bioaccumulate. |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1) | |
| Faktor biokonsentrasi (BCF REACH) | < 24 |
| Potensi bioterkumpul | Tidak dijangka bioaccumulate. |
| MOPS (1132-61-2) | |
| Potensi bioterkumpul | Tidak dijangka bioaccumulate. |

12.4. Kebolehergerakan di dalam tanah

| Ethylene glycol (107-21-1) | |
|-----------------------------------|------------------|
| Kebolehergerakan di dalam tanah | 0.2 Source: HSDB |

12.5. Kesan mudarat yang lain

Tiada maklumat tambahan didapati

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Helaian Data Keselamatan

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BAHAGIAN 13: Langkah-langkah pelupusan

13.1. Kaedah rawatan sisa

| | | |
|-------------------------|---|---|
| Kaedah rawatan sisa | : | Jangan lupuskan bersama sampah sarap rumah. Melupuskan dengan cara yang selamat mengikut peraturan-peraturan tempatan / kebangsaan. |
| Cadangan pelupusan sisa | : | Melupuskan dengan cara yang selamat mengikut peraturan-peraturan tempatan / kebangsaan. |
| Ekologi - sisa | : | Elakkan pelepasan bahan ke persekitaran. |

BAHAGIAN 14: Maklumat pengangkutan

Menurut IMDG / IATA

14.1. Nombor UN atau nombor ID

| | | |
|--------------|---|----------------------|
| No.UN (IMDG) | : | Tidak dikawal selia. |
| No.UN (IATA) | : | Tidak dikawal selia. |

14.2. Arahan rasmi untuk pengangkutan

| | | |
|------------------------------|---|----------------------|
| Nama penghantaran sah (IMDG) | : | Tidak dikawal selia. |
| Nama penghantaran sah (IATA) | : | Tidak dikawal selia. |

14.3. Kelas bahaya pengangkutan

IMDG

| | | |
|--|---|----------------------|
| Kelas(-kelas) bahaya pengangkutan (IMDG) | : | Tidak dikawal selia. |
|--|---|----------------------|

IATA

| | | |
|--|---|----------------------|
| Kelas(-kelas) bahaya pengangkutan (IATA) | : | Tidak dikawal selia. |
|--|---|----------------------|

14.4. Kumpulan pembungkusan

| | | |
|------------------------------|---|----------------------|
| Kumpulan pembungkusan (IMDG) | : | Tidak dikawal selia. |
| Kumpulan pembungkusan (IATA) | : | Tidak dikawal selia. |

14.5. Bahaya alam sekitar

| | | |
|-------------------------------|---|--------------------------------------|
| Berbahaya kepada persekitaran | : | Tidak |
| Pencemar laut | : | Tidak |
| Maklumat lain | : | Tidak ada maklumat tambahan didapati |

14.6. Langkah berjaga-jaga khas bagi pengguna

Pengangkutan darat

Tidak dikawal selia.

Pengangkutan laut

Tidak dikawal selia.

Pengangkutan udara

Tidak dikawal selia.

Pengangkutan jalan air pendalaman

Tidak dikawal selia.

Pengangkutan rel

Tidak dikawal selia.

14.7. Pengangkutan maritim secara pukal mengikut instrumen IMO

Tidak berkaitan

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BAHAGIAN 15: Maklumat pengawalseliaan

Peraturan keselamatan

Tiada maklumat tambahan didapati

BAHAGIAN 16: Maklumat lain

| Singkatan dan akronim: | |
|------------------------|---|
| | ACGIH (Persidangan Juruhigin Industri Kerajaan Amerika) |
| | Nombor CAS (Perkhidmatan Sari Kimia) |
| | CLP: Pengelasan, Pelabelan, Pembungkusan. |
| | EC50: Kepekatan Alam Sekitar dikaitkan dengan tindak balas 50% daripada populasi ujian. |
| | GHS: Sistem Terharmoni Global (Klasifikasi dan Pelabelan Bahan Kimia). |
| | LD50: Dos Maut untuk 50% daripada populasi ujian |
| | ATE: Anggaran Ketoksikan Akut |
| | TWA: Purata Berwajaran Masa |

Sumber data

: ACGIH (Persidangan Juruhigin Industri Kerajaan Amerika). Pangkalan data Inventori C&L Agensi Bahan Kimia Eropah (ECHA). Boleh diakses di <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Persatuan Perlindungan Kebakaran Negara; Fire Protection Guide to Hazardous Materials; Edisi Ke-10. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. Maklumat pembuat. US National Library of Medicine National Institutes of Health Haz-Map. Accessed at <http://hazmap.nlm.nih.gov>. SDS Pembekal Komponen.

| Teks lengkap bagi frasa-frasa H dan EUH: | |
|--|--|
| Akuatik Akut 1 | Berbahaya kepada persekitaran akuatik – Bahaya Akut, Kategori 1 |
| Akuatik Kronik 2 | Berbahaya kepada persekitaran akuatik – Bahaya Kronik, Kategori 2 |
| Akuatik Kronik 3 | Berbahaya kepada persekitaran akuatik – Bahaya Kronik, Kategori 3 |
| EUH208 | Mengandungi 1,2-benzisothiazolone(2634-33-5). Boleh menimbulkan tindak balas alergi. |
| H302 | Memudaratkan jika tertelan |
| H314 | Mengakibatkan lecur kulit dan kerosakan mata yang teruk. |
| H315 | Menyebabkan kerengsaan kulit. |
| H317 | Boleh menyebabkan tindak balas alahan kulit. |
| H318 | Mengakibatkan kerosakan mata yang serius. |
| H319 | Menyebabkan kerengsaan mata yang serius. |
| H335 | Boleh menyebabkan kerengsaan pernafasan. |
| H373 | Boleh menyebabkan kerosakan organ melalui pendedahan berpanjangan atau berulang. |
| H400 | Sangat toksik kepada hidupan akuatik. |
| H411 | Toksik kepada hidupan akuatik dengan kesan kekal berpanjangan. |
| H412 | Memudaratkan kepada hidupan akuatik dengan kesan kekal berpanjangan. |
| Kks. Kulit 1A | Kakistan/kerengsaan kulit, Kategori 1, Sub-Kategori 1A |
| Kks./Kreng. Kulit Tidak terkelas | Kakistan/kerengsaan kulit Tidak terkelas |

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Teks lengkap bagi frasa-frasa H dan EUH:

| | |
|---------------------|---|
| Kreng. Kulit 2 | Kakistan/kerengsaan kulit, Kategori 2 |
| Kreng. Mata 2 | Kerosakan mata/kerengsaan mata yang serius, Kategori 2 |
| Kros. Mata 1 | Kerosakan mata/kerengsaan mata yang serius, Kategori 1 |
| Pem. Kulit 1 | Pemekaan kulit, Kategori 1 |
| Skin Corr. 1B | Kakistan/kerengsaan kulit, Kategori 1, Sub-Kategori 1B |
| STOT RE 2 | Ketoksikan organ sasaran khusus - Pendedahan berulang, Kategori 2 |
| STOT SE 3 | Keracunan organ sasaran yang khusus (pendedahan tunggal) Kategori 3 |
| Toks. Akut 4 (Oral) | Ketoksikan akut (oral), Kategori 4 |

Klasifikasi dan prosedur yang digunakan untuk menentukan klasifikasi campuran mengikut peraturan (EC) 1272/2008 [CLP]:

| | | |
|------------------|------|------------------|
| Akuatik Kronik 3 | H412 | Kaedah pengiraan |
|------------------|------|------------------|

Helaian Data Keselamatan (SDS)

Maklumat ini adalah berdasarkan pengetahuan semasa kami dan keterangan produk diberikan semata-mata untuk tujuan kesihatan, keselamatan dan persekitaran. Ia tidak harus dianggap sebagai menjamin sebarang sifat tertentu produk