

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

1.1. Product identifier

Product form : Mixture
 Product name : T-Cut Color Fast Ceramic Black
 Product code : CFC001 CFC801 CFC901 PCF102
 Product group : End product

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

Relevant identified uses

Intended for general public
 Main use category : Industrial use, Professional use, Consumer use

1.3. Details of the supplier of the safety data sheet

Supplier

Tetrosyl Limited
 Newgate House
 Rochdale, Lancashire, OL16 1AT
 T 0161 764 5981
info@tetrosyl.com, www.tetrosyl.com
 E-mail address of competent person responsible for the SDS :
ataylor@jamesbriggs.co.uk

Distributor

Tetrosyl Europe
 CRT3 - 79 rue du chemin vert 70
 59273 59.273 Fretin, Hauts de France
 France
 T 03 20 28 06 30
qualite@tetrosyl-france.com

1.4. Emergency telephone number

Emergency number : +44 (0) 161 620 5400

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

Skin sensitisation, Category 1 H317
 Full text of H- and EUH-statements: see section 16

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]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Contains :

2-METHYLISOTHIAZOL-3(2H)-ONE

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction.

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| | |
|--------------------------------|--|
| Precautionary statements (CLP) | : P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P261 - Avoid breathing vapours, spray. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P501 - Dispose of contents/ container in accordance with local regulations. |
| Child-resistant fastening | : Not applicable |
| Tactile warning | : Not applicable |

2.3. Other hazards

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

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 substance(s) are 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

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|--------------|---|
| HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS | EC-No.: 926-141-6 REACH-no: 01-2119484819-18 | 10 – 20 | Asp. Tox. 1, H304 EUH066 |
| POLYDIMETHYLSILOXANE substance with national workplace exposure limit(s) (RO) | CAS-No.: 63148-62-9 EC-No.: 613-156-5 | 3.5 – 5 | Not classified |
| PARAFFIN WAX substance with national workplace exposure limit(s) (BE, DK, EE, ES, FI, FR, GB, GR, HR, IE, PL, PT, RO, SK, IS, NO, CH) | CAS-No.: 8002-74-2 EC-No.: 232-315-6 REACH-no: 01-2119488076-30 | 3.5 – 5 | Not classified |
| CERAMIC MICROSPHERES | CAS-No.: 66402-68-4 EC-No.: 266-340-9 | 0.1 – 0.2 | STOT RE 2, H373 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) |
| TITANIUM DIOXIDE substance with national workplace exposure limit(s) (AT, BE, BG, DK, EE, ES, FR, GB, GR, HR, IE, LT, LV, PL, PT, RO, SE, SK, IS, NO, CH) | CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379-17 | 0.1 – 0.2 | Carc. 2, H351 |
| ALCOHOLS, C16-18, ETHOXYLATED (APPROX 20 EO) | CAS-No.: 68439-49-6 EC-No.: 500-212-8 | 0.1 – 0.2 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Dam. 1, H318 Aquatic Acute 1, H400 |
| DIETHYL PHTHALATE substance with national workplace exposure limit(s) (AT, BE, BG, DK, EE, ES, FI, FR, GB, GR, HR, IE, LT, LV, PL, PT, SE, IS, NO, MK, CH) | CAS-No.: 84-66-2 EC-No.: 201-550-6 | 0.1 – 0.2 | Aquatic Chronic 3, H412 |
| AMMONIA ...100% substance with national workplace exposure limit(s) (FI) (Note B) | CAS-No.: 1336-21-6 EC-No.: 215-647-6 EC Index-No.: 007-001-01-2 | 0.005 – 0.05 | Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|-------------------|---|
| 2-(2-BUTOXYETHOXY)ETHANOL substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit | CAS-No.: 112-34-5 EC-No.: 203-961-6 EC Index-No.: 603-096-00-8 REACH-no: 01-2119475104-44 | 0.005 – 0.05 | Eye Irrit. 2, H319 |
| 2-METHYLISOTHIAZOL-3(2H)-ONE substance with national workplace exposure limit(s) (AT, CH) | CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9 REACH-no: 01-2120764690-50 | 0.0000001 – 0.005 | Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) EUH071 |
| (R)-P-MENTHA-1,8-DIENE substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH) | CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-096-00-2 REACH-no: 01-2119529223-47 | 0.0000001 – 0.005 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 |
| BUTYL HYDROXY TOLUENE substance with national workplace exposure limit(s) (AT, BE, BG, DE, DK, ES, FI, FR, GB, GR, HR, IE, PT, SI, IS, MK, CH) | CAS-No.: 128-37-0 EC-No.: 204-881-4 REACH-no: 01-2119565113-46 | 0.0000001 – 0.005 | Aquatic Chronic 1, H410 |
| METHYL-2H or METHYL-4 (3:1) Mixture of EC NO 220-239-6 substance with national workplace exposure limit(s) (AT, CH) | CAS-No.: 55965-84-9 EC-No.: 611-341-5 EC Index-No.: 613-167-00-5 | 0.0000001 – 0.005 | Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=50 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) |
| CITRAL substance with national workplace exposure limit(s) (BE, ES, IE, PL) | CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 | 0.0000001 – 0.005 | Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 2, H411 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits (%) |
|-----------------|---|-----------------------------------|
| AMMONIA ...100% | CAS-No.: 1336-21-6 EC-No.: 215-647-6 EC Index-No.: 007-001-01-2 | (5 ≤ C ≤ 100) STOT SE 3; H335 |

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| Specific concentration limits: | | |
|--|---|---|
| Name | Product identifier | Specific concentration limits (%) |
| 2-METHYLISOTHIAZOL-3(2H)-ONE | CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9 REACH-no: 01-2120764690-50 | (0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317 |
| METHYL-2H or METHYL-4 (3:1) Mixture of EC NO 220-239-6 | CAS-No.: 55965-84-9 EC-No.: 611-341-5 EC Index-No.: 613-167-00-5 | (0.00015 ≤ C < 0.0015) EUH208 (0.0015 ≤ C < 100) Skin Sens. 1A; H317 (0.06 ≤ C < 0.6) Skin Irrit. 2; H315 (0.06 ≤ C < 0.6) Eye Irrit. 2; H319 (0.6 ≤ C < 100) Skin Corr. 1C; H314 (0.6 ≤ C < 100) Eye Dam. 1; H318 |

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

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 general | : If you feel unwell, seek medical advice. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |

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

| | |
|-------------------------------------|---|
| Symptoms/effects after inhalation | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : None under normal conditions. |
| Symptoms/effects after ingestion | : None under normal conditions. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--------------------------------|
| Fire hazard | : No fire hazard. |
| Explosion hazard | : No direct explosion hazard. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

5.3. Advice for firefighters

| | |
|---------------------------|---|
| Firefighting instructions | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
|---------------------------|---|

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Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.
Storage conditions : Keep cool. Protect from sunlight.
Packaging materials : Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

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| 2-(2-BUTOXYETHOXY)ETHANOL (112-34-5) | |
|---|---|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | 2-(2-Butoxyethoxy)ethanol |
| IOEL TWA | 67.5 mg/m ³ |
| | 10 ppm |
| IOEL STEL | 101.2 mg/m ³ |
| | 15 ppm |
| Regulatory reference | COMMISSION DIRECTIVE 2006/15/EC |
| Ireland - Occupational Exposure Limits | |
| Local name | 2-(2-Butoxyethoxy)ethanol |
| OEL TWA | 67.5 mg/m ³ |
| | 10 ppm |
| OEL STEL | 101.2 mg/m ³ |
| | 15 ppm |
| Remark | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2021 |
| CITRAL (5392-40-5) | |
| Ireland - Occupational Exposure Limits | |
| Local name | Citral |
| OEL TWA | 5 ppm IFV (Inhalable Fraction and Vapour) |
| Regulatory reference | Chemical Agents Code of Practice 2021 |
| PARAFFIN WAX (8002-74-2) | |
| Ireland - Occupational Exposure Limits | |
| Local name | Paraffin wax, fume |
| OEL TWA | 2 mg/m ³ |
| OEL STEL | 6 mg/m ³ |
| Regulatory reference | Chemical Agents Code of Practice 2021 |
| TITANIUM DIOXIDE (13463-67-7) | |
| Ireland - Occupational Exposure Limits | |
| Local name | Titanium dioxide |
| OEL TWA | 4 mg/m ³ respirable dust |
| | 10 mg/m ³ total inhalable dust |
| Regulatory reference | Chemical Agents Code of Practice 2021 |
| BUTYL HYDROXY TOLUENE (128-37-0) | |
| Ireland - Occupational Exposure Limits | |
| Local name | 2,6-Ditertiary-butyl-para-cresol [Butylated hydroxytoluene (BHT)] |
| OEL TWA | 2 mg/m ³ |
| Regulatory reference | Chemical Agents Code of Practice 2021 |

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DIETHYL PHTHALATE (84-66-2)

Ireland - Occupational Exposure Limits

| | |
|----------------------|---------------------------------------|
| Local name | Diethyl phthalate |
| OEL TWA | 5 mg/m ³ |
| OEL STEL | 10 mg/m ³ |
| Regulatory reference | Chemical Agents Code of Practice 2021 |

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety glasses

Eye protection

| Type | Field of application | Characteristics | Standard |
|------|----------------------|-----------------|----------|
| | | | EN 166 |

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Hand protection

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|------|----------|------------|----------------|-------------|------------|
| | | | | | EN ISO 374 |

Other skin protection

Materials for protective clothing

| Condition | Material | Standard |
|-----------|----------|-------------|
| | | EN ISO 6530 |

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|------------------------------------|
| Physical state | : Liquid |
| Colour | : Black. |
| Appearance | : Liquid. |
| Odour | : Fruity. |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : 100 °C |
| Flammability | : Non flammable. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : 75 °C |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : pH (concentrated solution): 8.50 |
| Viscosity, kinematic | : 3500 mm ² /s |
| Viscosity, dynamic | : 3500 cP |
| Solubility | : Dispersible. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : 1.01 |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). High temperature. >50°C.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

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Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

2-(2-BUTOXYETHOXY)ETHANOL (112-34-5)

LD50 dermal rabbit 2764 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 2090 - 3645

CITRAL (5392-40-5)

LD50 oral rat ≈ 6800 mg/kg bodyweight Animal: rat

LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Remarks on results: other:

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

LD50 dermal rabbit ≥ 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

TITANIUM DIOXIDE (13463-67-7)

LD50 oral rat > 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)

(R)-P-MENTHA-1,8-DIENE (5989-27-5)

LD50 oral rat > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)

Skin corrosion/irritation : Not classified
pH: pH (concentrated solution): 8.50

2-METHYLISOTHIAZOL-3(2H)-ONE (2682-20-4)

pH 2.58 Temp.: 25 °C Concentration: 50 g/L

Serious eye damage/irritation : Not classified
pH: pH (concentrated solution): 8.50

2-METHYLISOTHIAZOL-3(2H)-ONE (2682-20-4)

pH 2.58 Temp.: 25 °C Concentration: 50 g/L

Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

CITRAL (5392-40-5)

NOAEL (chronic, oral, animal/male, 2 years) 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:

Reproductive toxicity : Not classified
STOT-single exposure : Not classified

AMMONIA ...100% (1336-21-6)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified

2-(2-BUTOXYETHOXY)ETHANOL (112-34-5)

NOAEL (oral, rat, 90 days) 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)

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| CITRAL (5392-40-5) | |
|--|--|
| LOAEC (inhalation, rat, gas, 90 days) | 68 ppm Animal: rat, Animal sex: female |
| NOAEL (oral, rat, 90 days) | 100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| NOAEC (inhalation, rat, gas, 90 days) | 34 ppm Animal: rat, Animal sex: female |
| NOAEL (subchronic, oral, animal/male, 90 days) | 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

| CERAMIC MICROSPHERES (66402-68-4) | |
|--|--|
| LOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| NOAEC (inhalation, rat, dust/mist/fume, 90 days) | 0.07 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

Aspiration hazard : Not classified

| T-Cut Color Fast Ceramic Black | |
|--------------------------------|-------------------------|
| Viscosity, kinematic | 3500 mm ² /s |

| 2-(2-BUTOXYETHOXY)ETHANOL (112-34-5) | |
|--------------------------------------|----------------------------|
| Viscosity, kinematic | ≈ 6.794 mm ² /s |

| HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS | |
|--|---|
| Viscosity, kinematic | 2.4 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)' |

| CERAMIC MICROSPHERES (66402-68-4) | |
|-----------------------------------|----------------|
| Viscosity, kinematic | Not applicable |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

| 2-(2-BUTOXYETHOXY)ETHANOL (112-34-5) | |
|--------------------------------------|---|
| LC50 - Fish [1] | 1300 mg/l Test organisms (species): Lepomis macrochirus |
| EC50 - Crustacea [1] | > 100 mg/l Test organisms (species): Daphnia magna |
| EC50 96h - Algae [1] | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

| CITRAL (5392-40-5) | |
|--------------------|--|
| LC50 - Fish [1] | 6.78 mg/l Test organisms (species): Leuciscus idus |

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| CITRAL (5392-40-5) | |
|--|--|
| EC50 - Crustacea [1] | 6.8 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 103.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| METHYL-2H or METHYL-4 (3:1) Mixture of EC NO 220-239-6 (55965-84-9) | |
| LC50 - Fish [1] | 0.19 mg/l |
| EC50 - Other aquatic organisms [1] | 0.126 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | 0.003 mg/l |
| TITANIUM DIOXIDE (13463-67-7) | |
| EC50 - Other aquatic organisms [1] | > 100 mg/l Test organisms (species): |
| EC50 72h - Algae [1] | > 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | 5 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| (R)-P-MENTHA-1,8-DIENE (5989-27-5) | |
| LC50 - Fish [1] | 720 µg/l Test organisms (species): Pimephales promelas |
| LC50 - Fish [2] | 702 µg/l Test organisms (species): Pimephales promelas |
| EC50 - Crustacea [1] | 0.307 mg/l Test organisms (species): Daphnia magna |
| EC50 - Crustacea [2] | 0.51 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 0.32 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 0.214 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| DIETHYL PHTHALATE (84-66-2) | |
| EC50 96h - Algae [1] | 85.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| 2-METHYLISOTHIAZOL-3(2H)-ONE (2682-20-4) | |
| LC50 - Fish [1] | 4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 1.6 mg/l Test organisms (species): Daphnia magna |
| CERAMIC MICROSPHERES (66402-68-4) | |
| EC50 72h - Algae [1] | 1.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 0.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1] | 0.57 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [2] | 0.46 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| 12.2. Persistence and degradability | |
| T-Cut Color Fast Ceramic Black | |
| Persistence and degradability | Not rapidly degradable |

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| | |
|--|------------------------|
| AMMONIA ...100% (1336-21-6) | |
| Persistence and degradability | Not rapidly degradable |
| 2-(2-BUTOXYETHOXY)ETHANOL (112-34-5) | |
| Persistence and degradability | Not rapidly degradable |
| CITRAL (5392-40-5) | |
| Persistence and degradability | Not rapidly degradable |
| HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS | |
| Persistence and degradability | Not rapidly degradable |
| METHYL-2H or METHYL-4 (3:1) Mixture of EC NO 220-239-6 (55965-84-9) | |
| Persistence and degradability | Not rapidly degradable |
| PARAFFIN WAX (8002-74-2) | |
| Persistence and degradability | Not rapidly degradable |
| TITANIUM DIOXIDE (13463-67-7) | |
| Persistence and degradability | Not rapidly degradable |
| BUTYL HYDROXY TOLUENE (128-37-0) | |
| Persistence and degradability | Not rapidly degradable |
| POLYDIMETHYLSILOXANE (63148-62-9) | |
| Persistence and degradability | Not rapidly degradable |
| ALCOHOLS, C16-18, ETHOXYLATED (APPROX 20 EO) (68439-49-6) | |
| Persistence and degradability | Not rapidly degradable |
| (R)-P-MENTHA-1,8-DIENE (5989-27-5) | |
| Persistence and degradability | Not rapidly degradable |
| DIETHYL PHTHALATE (84-66-2) | |
| Persistence and degradability | Not rapidly degradable |
| 2-METHYLISOTHIAZOL-3(2H)-ONE (2682-20-4) | |
| Persistence and degradability | Not rapidly degradable |
| CERAMIC MICROSPHERES (66402-68-4) | |
| Persistence and degradability | Not rapidly degradable |

12.3. Bioaccumulative potential

| | |
|--|-----|
| METHYL-2H or METHYL-4 (3:1) Mixture of EC NO 220-239-6 (55965-84-9) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.4 |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Regional waste regulation | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations. |
| Additional information | : Do not re-use empty containers. |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|----------------|----------------|----------------|----------------|
| 14.1. UN number or ID number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes

| Section | Changed item | Comments |
|---------|----------------------------------|-----------------|
| | Revision date | Modified |
| | Supersedes version of | Modified |
| 10.4 | Conditions to avoid | Modified |
| 10.6 | Hazardous decomposition products | Modified |

Abbreviations and acronyms:

| | |
|-----|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |

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Abbreviations and acronyms:

| | |
|---------|--|
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disruptor |

Full text of H- and EUH-statements:

| | |
|---------------------------|---|
| Acute Tox. 2 (Dermal) | Acute toxicity (dermal), Category 2 |
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhal.), Category 2 |
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic 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 |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 2 | Carcinogenicity, Category 2 |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH071 | Corrosive to the respiratory tract. |
| EUH208 | Contains {0 message≤name of sensitising substance> fieldvalue=_SENSITIZER_COMPONENTS}. May produce an allergic reaction. |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H310 | Fatal in contact with skin. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1A | Skin sensitisation, category 1A |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| 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 |

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.