

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

1.1. Product identifier

Product form : Mixture
Product name : Muted Orange
Product code : LXMO
Product group : Finished Ink

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

1.2.1. Relevant identified uses

Main use category : Intended for professional use as tattoo ink/permanent makeup ink.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Ink Projects LLC
460 Greenway Industrial Drive, Suite A
29708 Fort Mill, SC

1.4. Emergency telephone number

Emergency number : +1-813-248-0585. In case of emergency search for territorial toxicological emergency number or call 112

| Country | Organisation/Company | Address | Emergency number | Comment |
|-------------------------|---|---|--|--------------------------------------|
| Australia | NSW Poisons Information Centre The Children's Hospital at Westmead | Locked Bag 4001 NSW 2145 Westmead | 13 11 26 | |
| 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) | |
| Israel | Israel Poison Information Center Rambam Health Care Campus | 6 Ha'Aliya Street 31096 Haifa | +972 4 854 1900 | |
| Jordan | National Drug & Poison Information Center of Jordan | | 0798506755 00962-6-5353444 | |
| Malta | Medicines & Poisons Info Office | Mater Dei Hospital MSD 2090 Msida | +356 2545 6508 | |
| Saudi Arabia | Poison Control Center-Riyadh | General Directorate of Health Affairs Medial Province | +966 112324180 +966 112324189 | |
| United Arab Emirates | Health Authority – Abu Dhabi (HAAD) Poison & Drug Information Center (PDIC) | P.O. Box 5674 Abu Dhabi | + 800-424 | |
| United Kingdom | National Poisons Information Service (Belfast Centre) Royal Victoria Hospital | Grosvenor Road BT12 6BA Belfast | 0344 892 0111 | Only for healthcare professionals |

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

2.3. Other hazards

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

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] |
|----------------------------|--|---------|---|
| White 6 (CI:77891) | CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 | 40 – 45 | Aquatic Chronic 3, H412 |
| Glycerin | CAS-No.: 56-81-5 EC-No.: 200-289-5 | 6 – 7 | Acute Tox. 4 (Inhalation:dust,mist), H332 |
| Yellow 180 (CI:21290) | CAS-No.: 77804-81-0 EC-No.: 278-770-4 | 3 – 4 | Aquatic Chronic 2, H411 |
| Ethoxylated Fatty Alcohols | CAS-No.: 9004-98-2 | 1 – 1.7 | Acute Tox. 4 (Dermal), H312 Aquatic Chronic 3, H412 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Get medical advice and attention if you feel unwell. Wash skin with plenty of water.

First-aid measures after eye contact : Get medical advice/attention if you feel unwell. 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

No additional information available

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. 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".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : 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

Storage conditions : Store locked up. Recommended storage temperature: Maximum 32°C. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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| Glycerin (56-81-5) | |
|--|--|
| Belgium - Occupational Exposure Limits | |
| Local name | Glycérine (brouillard) # Glycerine (nevel) |
| OEL TWA | 10 mg/m ³ |
| Regulatory reference | Koninklijk besluit/Arrêté royal 19/11/2020 |
| Croatia - Occupational Exposure Limits | |
| Local name | Glicerol |
| GVI (OEL TWA) [1] | 10 mg/m ³ |
| Regulatory reference | Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 1/2021) |
| Czech Republic - Occupational Exposure Limits | |
| Local name | Glycerol, mlha |
| PEL (OEL TWA) | 10 mg/m ³ |
| PEL (OEL TWA) [ppm] | 2.6 ppm |
| NPK-P (OEL C) | 15 mg/m ³ |
| NPK-P (OEL C) [ppm] | 3.9 ppm |
| Regulatory reference | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.) |
| Estonia - Occupational Exposure Limits | |
| Local name | Glütseriin (glütserool, 1,2,3-propaantriool) |
| OEL TWA | 10 mg/m ³ |
| Regulatory reference | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84 |
| Finland - Occupational Exposure Limits | |
| Local name | Glyseroli |
| HTP (OEL TWA) [1] | 20 mg/m ³ |
| Regulatory reference | HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö) |
| France - Occupational Exposure Limits | |
| Local name | Glycérine (aérosols de) |
| VME (OEL TWA) | 10 mg/m ³ |
| Remark | Valeurs recommandées/admises |
| Regulatory reference | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 200 mg/m ³ (E) |
| Peak exposure limitation factor | 2(l) |
| Remark | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden |
| Regulatory reference | TRGS900 |
| Greece - Occupational Exposure Limits | |
| Local name | Γλυκερίνη |
| OEL TWA | 10 mg/m ³ |

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| Glycerin (56-81-5) | |
|--|--|
| Regulatory reference | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους |
| Poland - Occupational Exposure Limits | |
| Local name | Glicerol |
| NDS (OEL TWA) | 10 mg/m ³ frakcja wdychalna |
| Remark | Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. |
| Regulatory reference | Dz. U. 2018 poz. 1286 |
| Slovakia - Occupational Exposure Limits | |
| Local name | Glycerín |
| NPHV (OEL TWA) [1] | 10 mg/m ³ |
| Regulatory reference | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.) |
| Slovenia - Occupational Exposure Limits | |
| Local name | glicerín |
| OEL TWA | 200 mg/m ³ |
| OEL STEL | 400 mg/m ³ |
| Remark | Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti) |
| Regulatory reference | Uradni list RS, št. 72/2021 z dne 11.5.2021 |
| Spain - Occupational Exposure Limits | |
| Local name | Glicerina |
| VLA-ED (OEL TWA) [1] | 10 mg/m ³ nieblas |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Glycerol |
| WEL TWA (OEL TWA) [1] | 10 mg/m ³ |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Switzerland - Occupational Exposure Limits | |
| Local name | Glycérine / Glycerin |
| MAK (OEL TWA) [1] | 50 mg/m ³ (i) / (e) |
| KZGW (OEL STEL) | 100 mg/m ³ (i) / (e) |
| Critical toxicity | VRS / OAW |
| Notation | SS _c / SS _c |
| Regulatory reference | www.suva.ch, 01.01.2021 |
| White 6 (Cl:77891) (13463-67-7) | |
| Austria - Occupational Exposure Limits | |
| Local name | Titandioxid (Alveolarstaub) |
| MAK (OEL TWA) | 5 mg/m ³ (A) |
| MAK (OEL STEL) | 10 mg/m ³ (A, 2x 60(Miw) min) |
| Regulatory reference | BGBI. II Nr. 156/2021 |

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| White 6 (CI:77891) (13463-67-7) | |
|--|---|
| Belgium - Occupational Exposure Limits | |
| Local name | Titane (dioxyde de) # Titaandioxide |
| OEL TWA | 10 mg/m ³ |
| Regulatory reference | Koninklijk besluit/Arrêté royal 19/11/2020 |
| Bulgaria - Occupational Exposure Limits | |
| Local name | Титанов диоксид |
| OEL TWA | 10 mg/m ³ (респирабилен прах) |
| Regulatory reference | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.) |
| Croatia - Occupational Exposure Limits | |
| Local name | Titanov dioksid |
| GVI (OEL TWA) [1] | 10 mg/m ³ U (ukupna prašina) 4 mg/m ³ R (respirabilna prašina) |
| Regulatory reference | Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 1/2021) |
| Denmark - Occupational Exposure Limits | |
| Local name | Titandioxid |
| OEL TWA [1] | 6 mg/m ³ beregnet som Ti |
| Regulatory reference | BEK nr 1426 af 28. juni 2021 |
| Estonia - Occupational Exposure Limits | |
| Local name | Titaanoksiid |
| OEL TWA | 5 mg/m ³ |
| Regulatory reference | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84 |
| France - Occupational Exposure Limits | |
| Local name | Titane (dioxyde de), en Ti |
| VME (OEL TWA) | 10 mg/m ³ |
| Remark | Valeurs recommandées/admises |
| Regulatory reference | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016) |
| Greece - Occupational Exposure Limits | |
| Local name | Τιτανίου διοξειδίο |
| OEL TWA | 10 mg/m ³ εισπν. 5 mg/m ³ αναπν. |
| Regulatory reference | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους |
| Ireland - Occupational Exposure Limits | |
| Local name | Titanium dioxide |
| OEL TWA [1] | 10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust |
| Regulatory reference | Chemical Agents Code of Practice 2021 |

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| White 6 (CI:77891) (13463-67-7) | |
|---|--|
| Latvia - Occupational Exposure Limits | |
| Local name | Titāna dioksīds |
| OEL TWA | 10 mg/m ³ |
| Regulatory reference | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92) |
| Lithuania - Occupational Exposure Limits | |
| Local name | Titano dioksidas |
| IPRV (OEL TWA) | 5 mg/m ³ |
| Regulatory reference | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12) |
| Poland - Occupational Exposure Limits | |
| Local name | Ditlenek tytanu |
| NDS (OEL TWA) | 10 mg/m ³ frakcja wdychalna |
| Remark | Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednocześnie oznaczanie stężeń frakcji respirabilnej krzemionki krystalicznej. |
| Regulatory reference | Dz. U. 2018 poz. 1286 |
| Portugal - Occupational Exposure Limits | |
| Local name | Dióxido de titânio |
| OEL TWA | 10 mg/m ³ |
| Remark | A4 (Agente não classificável como carcinogénico no Homem) |
| Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Romania - Occupational Exposure Limits | |
| Local name | Dioxid de titan |
| OEL TWA | 10 mg/m ³ |
| OEL STEL | 15 mg/m ³ |
| Regulatory reference | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021) |
| Slovakia - Occupational Exposure Limits | |
| Local name | Oxid titaničitý |
| NPHV (OEL TWA) [1] | 5 mg/m ³ |
| Regulatory reference | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.) |
| Spain - Occupational Exposure Limits | |
| Local name | Dióxido de titanio |
| VLA-ED (OEL TWA) [1] | 10 mg/m ³ |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT |
| Sweden - Occupational Exposure Limits | |
| Local name | Titandioxid |
| NGV (OEL TWA) | 5 mg/m ³ totaldamm |

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| White 6 (CI:77891) (13463-67-7) | |
|---|---|
| Remark | 3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagnings av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod) |
| Regulatory reference | Hygieniska gränsvärden (AFS 2018:1) |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Titanium dioxide |
| WEL TWA (OEL TWA) [1] | 10 mg/m ³ 4 mg/m ³ |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Iceland - Occupational Exposure Limits | |
| Local name | Títandíoxíð, sem Ti |
| OEL TWA | 6 mg/m ³ |
| Regulatory reference | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009) |
| Norway - Occupational Exposure Limits | |
| Local name | Titandioksid |
| Grenseverdi (OEL TWA) [1] | 5 mg/m ³ |
| Regulatory reference | FOR-2021-06-28-2248 |
| Switzerland - Occupational Exposure Limits | |
| Local name | Dioxyde de titane / Titandioxid |
| MAK (OEL TWA) [1] | 3 mg/m ³ (a) / (a) |
| Critical toxicity | VRI / UAW |
| Notation | SS _c / SS _c |
| Remark | NIOSH |
| Regulatory reference | www.suva.ch, 01.01.2021 |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Titanium dioxide |
| ACGIH OEL TWA | 10 mg/m ³ |
| Remark (ACGIH) | TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2021 |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-------------------------|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Colour | : orange. |
| Odour | : Characteristic odour. |
| Odour threshold | : No data available |
| pH | : 7.5 – 8.5 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : > 100 °C |
| Flash point | : > 93 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |

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Oxidising properties : No data available
Explosive limits : No data available
Particle size : < 1 µm

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).

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

| Ethoxylated Fatty Alcohols (9004-98-2) | |
|--|---|
| LD50 oral rat | > 21000 mg/kg Source: ECHA |
| LD50 dermal rabbit | 2000 mg/kg Source: ECHA |
| LC50 Inhalation - Rat | > 1.6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other: |
| Glycerin (56-81-5) | |
| LD50 oral rat | 27200 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral, 10 day(s)) |
| LD50 dermal | 56750 mg/kg (4 day(s), Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | > 2.75 mg/l (4 h, Rat, Male, Experimental value, Converted value, Inhalation (vapours)) |
| LC50 Inhalation - Rat (Vapours) | > 2.75 mg/l Source: ECHA |
| White 6 (CI:77891) (13463-67-7) | |
| LD50 oral rat | > 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LC50 Inhalation - Rat | > 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) |

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| | |
|---|---|
| White 6 (CI:77891) (13463-67-7) | |
| LC50 Inhalation - Rat (Dust/Mist) | > 6.82 mg/l Source: ECHA |
| Yellow 180 (CI:21290) (77804-81-0) | |
| LD50 oral rat | > 5000 mg/kg Source: KOSHANET |
| LC50 Inhalation - Rat | > 1274 mg/l air Animal: rat, Guideline: other., Remarks on results: other: |
| Skin corrosion/irritation | : Not classified pH: 7.5 – 8.5 |
| Ethoxylated Fatty Alcohols (9004-98-2) | |
| pH | 7 (1 %, 20 °C) |
| Glycerin (56-81-5) | |
| pH | No data available in the literature |
| White 6 (CI:77891) (13463-67-7) | |
| pH | 7 (aqueous suspension, 10 %) |
| Serious eye damage/irritation | : Not classified pH: 7.5 – 8.5 |
| Ethoxylated Fatty Alcohols (9004-98-2) | |
| pH | 7 (1 %, 20 °C) |
| Glycerin (56-81-5) | |
| pH | No data available in the literature |
| White 6 (CI:77891) (13463-67-7) | |
| pH | 7 (aqueous suspension, 10 %) |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| White 6 (CI:77891) (13463-67-7) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Ethoxylated Fatty Alcohols (9004-98-2) | |
| NOAEL (oral, rat, 90 days) | ≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| Yellow 180 (CI:21290) (77804-81-0) | |
| NOAEL (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), Guideline: other: |
| Aspiration hazard | : Not classified |
| Ethoxylated Fatty Alcohols (9004-98-2) | |
| Viscosity, kinematic | 21.053 mm ² /s |
| Glycerin (56-81-5) | |
| Viscosity, kinematic | No data available in the literature |

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White 6 (CI:77891) (13463-67-7)

| | |
|----------------------|------------------------|
| Viscosity, kinematic | Not applicable (solid) |
|----------------------|------------------------|

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.

Not rapidly degradable

Ethoxylated Fatty Alcohols (9004-98-2)

| | |
|-----------------|-----------------------|
| LC50 - Fish [1] | 108 mg/l Source: ECHA |
|-----------------|-----------------------|

| | |
|----------------------|----------------------|
| EC50 - Crustacea [1] | 51 mg/l Source: ECHA |
|----------------------|----------------------|

Glycerin (56-81-5)

| | |
|-----------------|--|
| LC50 - Fish [1] | 54000 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Lethal) |
|-----------------|--|

| | |
|----------------------|--|
| EC50 - Crustacea [1] | > 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
|----------------------|--|

White 6 (CI:77891) (13463-67-7)

| | |
|-----------------|--|
| LC50 - Fish [1] | > 100 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration) |
|-----------------|--|

| | |
|----------------------|---|
| EC50 - Crustacea [1] | > 1000 mg/l (Invertebrata, Fresh water) |
|----------------------|---|

| | |
|----------------------|------------------------|
| EC50 72h - Algae [1] | > 50 mg/l Source: ECHA |
|----------------------|------------------------|

| | |
|-------------|--|
| ErC50 algae | 61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) |
|-------------|--|

Yellow 180 (CI:21290) (77804-81-0)

| | |
|-----------------|---|
| LC50 - Fish [1] | > 1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
|-----------------|---|

| | |
|----------------------|--|
| EC50 - Crustacea [1] | > 100 mg/l Test organisms (species): Daphnia magna |
|----------------------|--|

| | |
|----------------|---|
| NOEC (chronic) | 1 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
|----------------|---|

12.2. Persistence and degradability

Ethoxylated Fatty Alcohols (9004-98-2)

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

| | |
|------------------------------|------------------------------------|
| Chemical oxygen demand (COD) | 2.33 g O ₂ /g substance |
|------------------------------|------------------------------------|

Glycerin (56-81-5)

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

| | |
|---------------------------------|------------------------------------|
| Biochemical oxygen demand (BOD) | 0.87 g O ₂ /g substance |
|---------------------------------|------------------------------------|

| | |
|------------------------------|------------------------------------|
| Chemical oxygen demand (COD) | 1.16 g O ₂ /g substance |
|------------------------------|------------------------------------|

| | |
|------|-------------------------------------|
| ThOD | 1.217 g O ₂ /g substance |
|------|-------------------------------------|

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| White 6 (CI:77891) (13463-67-7) | |
|---------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

12.3. Bioaccumulative potential

| Ethoxylated Fatty Alcohols (9004-98-2) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 6.13 Source: Quantitative Structure Activity Relation |
| Bioaccumulative potential | No bioaccumulation data available. |

| Glycerin (56-81-5) | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | -1.75 (Experimental value, Equivalent or similar to OECD 107, 25 °C) |
| Bioaccumulative potential | Not bioaccumulative. |

| White 6 (CI:77891) (13463-67-7) | |
|---------------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |

| Yellow 180 (CI:21290) (77804-81-0) | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 4.24 Source: Ecological Structure Activity Relationships |

12.4. Mobility in soil

| Glycerin (56-81-5) | |
|--|--|
| Surface tension | 63.4 mN/m (20 °C, 1000 g/l) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

| White 6 (CI:77891) (13463-67-7) | |
|---------------------------------|-------------------------------------|
| Surface tension | No data available in the literature |
| Ecology - soil | Low potential for mobility in soil. |

| Yellow 180 (CI:21290) (77804-81-0) | |
|------------------------------------|-------------------------|
| Mobility in soil | 36660 Source: EPI Suite |

12.5. Results of PBT and vPvB assessment

| Component | |
|---------------------------------|---|
| White 6 (CI:77891) (13463-67-7) | 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 |
| Glycerin (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

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|---------------|---------------|---------------|---------------|
| 14.1. UN number | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 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

Comply with applicable regulations

: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. COMMISSION REGULATION (EU) 2020/2081 of 14 December 2020 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) as regards substances in tattoo inks or permanent make-up, Official Journal of the European Union as of 15th December 2020, L 423/6. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006. Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC. Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. Official Journal of the European Union 27.7.2012, No L 201/60. Classification EC 67/548 or EC 1999/45.

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 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 drug precursors)

15.1.2. National regulations

Germany

Employment restrictions

: Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK)

: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Storage class (LGK, TRGS 510)

: LGK 12 - Non-combustible liquids.

Joint storage table

| | | | | |
|----------|---------|----------|----------|-----------|
| LGK 1 | LGK 2A | LGK 2B | LGK 3 | LGK 4.1A |
| LGK 4.1B | LGK 4.2 | LGK 4.3 | LGK 5.1A | LGK 5.1B |
| LGK 5.1C | LGK 5.2 | LGK 6.1A | LGK 6.1B | LGK 6.1C |
| LGK 6.1D | LGK 6.2 | LGK 7 | LGK 8A | LGK 8B |
| LGK 10 | LGK 11 | LGK 12 | LGK 13 | LGK 10-13 |

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| | |
|---|---|
| Joint storage not permitted for | : LGK 1, LGK 6.2, LGK 7. |
| Joint storage with restrictions permitted for | : LGK 4.1A, LGK 4.3, LGK 5.1C. |
| Joint storage permitted for | : LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13. |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject of the Hazardous Incident Ordinance (12. BImSchV) |

Netherlands

| | |
|--|--|
| ABM category | : A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment |
| SZW-lijst van kankerverwekkende stoffen | : Yellow 180 (Cl:21290) is listed |
| SZW-lijst van mutagene stoffen | : None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : None of the components are listed |

Denmark

| | |
|-----------------------------|---|
| Classification remarks | : Emergency management guidelines for the storage of flammable liquids must be followed |
| Danish National Regulations | : Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal |

Switzerland

| | |
|--------------------|----------------------|
| Storage class (LK) | : LK 10/12 - Liquids |
|--------------------|----------------------|

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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) |
| 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 |

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| Abbreviations and acronyms: | |
|-----------------------------|--|
| 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 disrupting properties |

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) 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 |
| EUH210 | Safety data sheet available on request. |
| H312 | Harmful in contact with skin. |
| H332 | Harmful if inhaled. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

The classification complies with : ATP 12

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.