

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

1.1. Product identifier

Product form : Mixture
Product name : Vivid Koral
Product code : LXVK
Product group : Finished Ink

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

1.2.1. Relevant identified uses

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Specific target organ toxicity — Single exposure, Category 2 H371
Specific target organ toxicity — Repeated exposure, Category 1 H372
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes damage to organs through prolonged or repeated exposure. May cause damage to organs.

2.2. Label elements

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

Signal word (CLP) : Danger
Contains : Propylene Glycol, White 6 (CI:77891)
Hazard statements (CLP) : H371 - May cause damage to organs.
H372 - Causes damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
P314 - Get medical advice/attention if you feel unwell.
P405 - Store locked up.
Unknown acute toxicity (CLP) - SDS : 63.05% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
91.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
77.91% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

2.3. Other hazards

No additional information available

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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 | 25 – 30 | STOT RE 1, H372 Aquatic Chronic 3, H412 |
| Orange 73 (CI:561170) | CAS-No.: 84632-59-7 | 15 – 25 | Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Chronic 3, H412 |
| Glycerin | CAS-No.: 56-81-5 EC-No.: 200-289-5 | 6 – 7 | Acute Tox. 4 (Inhalation:dust,mist), H332 |
| Propylene Glycol | CAS-No.: 57-55-6 EC-No.: 200-338-0 | 5 – 6 | STOT SE 1, H370 STOT SE 3, H336 |
| 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 general | : IF exposed or concerned: Get medical advice/attention. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. In case of no improvement get medical advice/attention |
| First-aid measures after skin contact | : Wash skin with plenty of water. In case of no improvement get medical advice/attention |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. In case of no improvement get medical advice/attention |
| 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.

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.

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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. Do not breathe dust/fume/gas/mist/vapours/spray.

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. Do not breathe dust/fume/gas/mist/vapours/spray.

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. Store in a well-ventilated place. Recommended storage conditions not to exceed 32°C

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

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) |

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| Glycerin (56-81-5) | |
|--|--|
| 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 terveystieteiden ministeriö) |
| 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 |
| 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 |

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| Glycerin (56-81-5) | |
|--|--|
| 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 |
| Propylene Glycol (57-55-6) | |
| Croatia - Occupational Exposure Limits | |
| Local name | Propane-1,2-diol |
| GVI (OEL TWA) [1] | 474 mg/m ³ ukupno pare i čestice 10 mg/m ³ samo čestice |
| GVI (OEL TWA) [2] | 150 ppm ukupno pare i čestice |
| Regulatory reference | Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 1/2021) |
| Ireland - Occupational Exposure Limits | |
| Local name | Propane-1,2-diol [Propylene glycol] |
| OEL TWA [1] | 470 mg/m ³ total (vapour and particulates) 10 mg/m ³ particulates |
| OEL TWA [2] | 150 ppm total (vapour and particulates) |
| Regulatory reference | Chemical Agents Code of Practice 2021 |

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| Propylene Glycol (57-55-6) | |
|--|--|
| Latvia - Occupational Exposure Limits | |
| Local name | Propilēnglikols (1,2-propāndiols) |
| OEL TWA | 7 mg/m ³ |
| Regulatory reference | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 |
| Lithuania - Occupational Exposure Limits | |
| Local name | Propilenglikolis |
| IPRV (OEL TWA) | 7 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 | Propano-1,2-diol |
| NDS (OEL TWA) | 100 mg/m ³ pary i 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 |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Propane-1,2-diol |
| WEL TWA (OEL TWA) [1] | 474 mg/m ³ 10 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 150 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Norway - Occupational Exposure Limits | |
| Local name | Propan-1,2-diol |
| Grenseverdi (OEL TWA) [1] | 79 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 25 ppm |
| Regulatory reference | FOR-2021-06-28-2248 |
| White 6 (CI: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 | BGBl. II Nr. 156/2021 |
| 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) |

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

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| White 6 (CI:77891) (13463-67-7) | |
|--|--|
| 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 |
| Remark | 3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetarskyddsstyrelsen, 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 |

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| White 6 (CI:77891) (13463-67-7) | |
|---|---|
| Iceland - Occupational Exposure Limits | |
| Local name | Títandióxið, 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 |
| Grænseverdi (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

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

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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 |
| 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.

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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. |
| Unknown acute toxicity (CLP) - SDS | : 63.05% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 91.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 77.91% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |
| Skin corrosion/irritation | : Not classified pH: 7.5 – 8.5 |
| Serious eye damage/irritation | : Not classified pH: 7.5 – 8.5 |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

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

| | |
|------------|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |
|------------|--------------------------------------|

| | |
|-----------------------|-------------------------------|
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : May cause damage to organs. |

Propylene Glycol (57-55-6)

| | |
|------------------------|---|
| STOT-single exposure | Causes damage to organs. May cause drowsiness or dizziness. |
| STOT-repeated exposure | : Causes damage to organs through prolonged or repeated exposure. |

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

| | |
|------------------------|---|
| STOT-repeated exposure | Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified |

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 | |

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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 |

Propylene Glycol (57-55-6)

| | |
|---------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.96 – 1.08 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.63 g O ₂ /g substance |
| ThOD | 1.69 g O ₂ /g substance |

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. |

Propylene Glycol (57-55-6)

| | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -1.07 (Experimental value, EU Method A.8: Partition Coefficient, 20.5 °C) |
| Bioaccumulative potential | Not bioaccumulative. |

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

| | |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |
|---------------------------|----------------------|

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. |

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| Propylene Glycol (57-55-6) | |
|--|---|
| Surface tension | 71.6 mN/m (21.5 °C, 1.01 g/l, EU Method A.5: Surface tension) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.46 (log Koc, 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. |

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 |
| Propylene Glycol (57-55-6) | 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.

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 | | | | |

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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

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances as stated in Annex XVII as amended

Is not classified as PBT or vPvB as in REACH Annex XIII.

Complies with:

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorization 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, as amended), COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH),

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,

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L 353 of 31.12.2008, as amended),

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, Official Journal of the European Union 27.7.2012, No L 201/60

15.1.2. National regulations

France

Occupational diseases

| Code | Description |
|-------|---|
| RG 84 | Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide |

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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)
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
- Storage class (LGK, TRGS 510) : LGK 6.1D - Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects
- 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 |
- Joint storage not permitted for : LGK 1, LGK 2A, LGK 4.1A, LGK 5.1A, LGK 5.1C, LGK 5.2, LGK 6.2, LGK 7
- Joint storage with restrictions permitted for : LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1B
- Joint storage permitted for : LGK 2B, 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

Netherlands

- ABM category : A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment
- SZW-lijst van kankerverwekkende stoffen : None of the components are 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 : Young people below the age of 18 years are not allowed to use the product
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 6.1 - Toxic materials

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 |

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| Abbreviations and acronyms: | |
|-----------------------------|--|
| 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 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 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| H312 | Harmful in contact with skin. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H370 | Causes damage to organs. |
| H371 | May cause damage to organs. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |
| STOT RE 1 | Specific target organ toxicity — Repeated exposure, Category 1 |

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Full text of H- and EUH-statements:

| | |
|-----------|--|
| STOT SE 1 | Specific target organ toxicity — single exposure, Category 1 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |

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.