

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

1.1. Product identifier

Product form : Mixture
Trade name : High Temp DL400 - Translucent
Type of product : Photopolymer
Other means of identification : DAYHTMAM05

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use
Use of the substance/mixture : For use in Photocentric Daylight Printers

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Photocentric Ltd
Titan House
20 Titan Drive
Peterborough, PE1 5XN - United Kingdom
T +44 (0) 1733 349937 (UK Office hours only)
info@photocentric.co.uk - <https://photocentricgroup.com/>

Distributor

Photocentric Inc
855 N. 107th Ave
Suite A110
85323 Avondale, Arizona - United States
T 006235813220 x1009 (USA Office hours only)
customerservice@photocentricusa.com - <https://photocentricgroup.com/>

1.4. Emergency telephone number

Emergency number : +44 (0) 1733 349937 (UK Office hours only)
006235813220 x1009 (USA Office hours only)
Transport Emergencies for US & CANADA: For Hazardous Materials [or Dangerous Goods]
Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC 1-800-424-9300 / +1 703-527-3887 CCN 992854

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411
Full text of H- and EUH-statements: see section 16

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. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

GHS09

Signal word (CLP) :

Danger

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

| | |
|--------------------------------|---|
| Contains | : Proprietary (Crosslinking agent); Proprietary (Photoinitiator); Proprietary (Triacrylate); Proprietary (Diacrylate); Proprietary (Aliphatic Urethane Oligomer) |
| Hazard statements (CLP) | : H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H411 - Toxic to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P261 - Avoid breathing fume, mist, spray, vapours.vapours, fume, spray. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a doctor. P321 - Specific treatment (see supplemental first aid instruction on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P391 - Collect spillage. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions.

Contains no PBT and/or 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 | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|------------------|--|
| Proprietary (Triacrylate) | $\geq 15 - < 70$ | Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Proprietary (Diacrylate) | $\geq 25 - < 50$ | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 |
| Proprietary (Diacrylate) | $\geq 10 - < 15$ | Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| Proprietary (Aliphatic Urethane Oligomer) | $\geq 10 - < 15$ | Skin Sens. 1B, H317 Aquatic Chronic 2, H411 |
| Proprietary (Photoinitiator) | $\geq 1 - < 3$ | Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Proprietary (Crosslinking agent) | $\geq 0.1 - < 1$ | Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| Proprietary (Photoinitiator) | $\geq 0.1 - < 1$ | Flam. Sol. 1, H228 Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 2, H411 |

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| | | |
|----------------------------------|-----|--|
| Proprietary (Crosslinking agent) | < 1 | Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |
|----------------------------------|-----|--|

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 | : Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person. |
| First-aid measures after inhalation | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor. Apply artificial respiration if victim is not breathing. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. |
| First-aid measures after ingestion | : If swallowed, seek medical advice immediately and show this container or label. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth out with water. Get medical advice/attention if you feel unwell. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | : Inhalation may cause irritation (cough, short breathing, difficulty in breathing). May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Risk of serious damage to eyes. Serious damage to eyes. |
| Symptoms/effects after ingestion | : Harmful if swallowed. May cause irritation to the digestive tract. |

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

Treat symptomatically. In all cases of doubt, or when symptoms persist, seek medical attention. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

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

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

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Precautionary measures fire | : Keep cool. Protect from sunlight. |
| Firefighting instructions | : Do not enter fire area without proper protective equipment, including respiratory protection. Fight fire from safe distance and protected location. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| Other information | : High temperature decomposition products are harmful by inhalation. |

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. For further information refer to section 8: "Exposure controls/personal protection". Avoid breathing mist, spray, vapours.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Protective gloves. Safety glasses. Self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas. Very toxic to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

- For containment : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material. This material and its container must be disposed of in a safe way, and as per local legislation.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". 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 that there is a suitable ventilation system. Do not handle in a confined space. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Protective clothing (with elasticated cuffs and closed neck). Do not breathe dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Handling temperature : < 50 °C
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Store in a well-ventilated place. Keep cool.
- Incompatible materials : Direct sunlight.
- Storage temperature : < 50 °C
- Storage area : Store in a well-ventilated place. Store away from heat.
- Special rules on packaging : Store in a closed container.
- Packaging materials : Do not store in corrodable metal. Store always product in container of same material as original container.

7.3. Specific end use(s)

The identified uses for this product are detailed in section 1.2.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

Personal protective equipment:

Wear recommended personal protective equipment. Gloves. Safety glasses.

Materials for protective clothing:

Wear suitable protective clothing and gloves. Nitrile rubber. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training

Hand protection:

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Nitrile-rubber protective gloves

Eye protection:

Safety glasses (EN 166). Chemical goggles or safety glasses

Skin and body protection:

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact. Wear suitable protective clothing. Protective clothing (EN 14605 or EN 13034)

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Wear suitable respiratory protection (conforming to EN140 with Type A filter or better) and gloves (type EN374) if regular skin contact likely

Personal protective equipment symbol(s):



Thermal hazard protection:

Typical measures to maintain workplace concentrations of airborne VOCs and particulates below respective OELs: e.g. thermal wet scrubber – gas removal and/or air filtration – particle removal and/or thermal oxidation and/or vapour recovery – adsorption.

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 | : dark orange. |
| Odour | : characteristic. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : > 60 °C |
| Freezing point | : < 23 °C |

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| | |
|---|--|
| Boiling point | : > 100 °C The product has not been tested. The statements are based on the properties of the individual components. |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability | : Not applicable |
| Vapour pressure | : 0.013 @25 °C. The product has not been tested., The statements are based on the properties of the individual components. |
| 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 | : 600 – 700 mPa·s @25°C |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions of use.

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 |

Proprietary (Diacrylate) (52404-33-8)

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

Proprietary (Crosslinking agent) (28961-43-5)

| | |
|---------------|--|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral)) |
|---------------|--|

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

| | |
|--------------------|---|
| LD50 dermal rabbit | > 13200 mg/kg bodyweight Animal: rabbit |
|--------------------|---|

Proprietary (Crosslinking agent) (7575-23-7)

| | |
|-----------------------|--|
| LD50 oral rat | 1000 – 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) |
| LC50 Inhalation - Rat | > 3.363 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity) |

Proprietary (Photoinitiator) (162881-26-7)

| | |
|-----------------|---|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.1 (Acute Toxicity (Oral)) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: other:92/69/EEC |

Proprietary (Photoinitiator) (125051-32-3)

| | |
|-----------------|--|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: other:OECD GUIDELINE No.401 (CORRESPONDING TO 84/449/EEC, B.1) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: other:OECD GUIDELINE No.402 (CORRESPONDING TO 84/449/EEC, B.3) |

Proprietary (Triacrylate) (40220-08-4)

| | |
|---------------|---|
| LD50 oral rat | No mortality/Rat: 2.000 mg/kg (Method: OECD Test Guideline 423) |
|---------------|---|

Proprietary (Diacylate) (57472-68-1)

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

Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)

| | |
|-----------------------------------|--|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Remarks on results: no indication of skin irritation up to the relevant limit dose level |
| LC50 Inhalation - Rat (Dust/Mist) | > 5 mg/l/4h |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye damage. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)

| | |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years) | 100 – 300 mg/kg bodyweight Combined 28-Day Repeated |
|---|---|

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

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

Proprietary (Crosslinking agent) (28961-43-5)

| | |
|----------------------------|---|
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
|----------------------------|---|

Proprietary (Crosslinking agent) (7575-23-7)

| | |
|----------------------------|---|
| NOAEL (oral, rat, 90 days) | ≥ 100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
|----------------------------|---|

Proprietary (Photoinitiator) (162881-26-7)

| | |
|----------------------------|---|
| NOAEL (oral, rat, 90 days) | > 1000 mg/kg bodyweight Animal: rat, Guideline: other:92/69/eec |
|----------------------------|---|

Proprietary (Photoinitiator) (125051-32-3)

| | |
|----------------------------|---|
| NOAEL (oral, rat, 90 days) | < 10.8 mg/kg bodyweight Animal: other:ALBINO RAT/Tif: RAIf (SPF) HYBRIDIS OF RII/1×RII/2, Guideline: other:EEC Directive, B.7 |
|----------------------------|---|

Proprietary (Triacrylate) (40220-08-4)

| | |
|----------------------------|---|
| LOAEL (oral, rat, 90 days) | 100 mg/kg bodyweight/day (Method: OECD Test Guideline 422, Rat, 28 d) |
| NOAEL (oral, rat, 90 days) | 50 mg/kg bodyweight/day By oral route: Local irritation, NOAEL (Method: OECD Test Guideline 422, Rat, 28 d) |

Proprietary (Diacrylate) (57472-68-1)

| | |
|----------------------------|---|
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
|----------------------------|---|

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Irritation: severely irritant to eyes. Harmful in contact with skin. Harmful if swallowed.

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. Toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Toxic to aquatic life with long lasting effects. |
| Not rapidly degradable | |

Proprietary (Crosslinking agent) (28961-43-5)

| | |
|----------------------|---|
| LC50 - Fish [1] | 1.95 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 70.7 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 2.2 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

Proprietary (Crosslinking agent) (7575-23-7)

| | |
|-----------------|---|
| LC50 - Fish [1] | 0.034 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
|-----------------|---|

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

| | |
|----------------------|--|
| EC50 - Crustacea [1] | > 0.35 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 0.12 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

Proprietary (Photoinitiator) (162881-26-7)

| | |
|----------------------|--|
| LC50 - Fish [1] | > 0.09 mg/l Test organisms (species): other:Zebra Fish Brachydanio rerio |
| EC50 - Crustacea [1] | > 1.175 mg/l Test organisms (species): other aquatic crustacea:Daphnia Magna |
| EC50 72h - Algae [1] | > 0.26 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

Proprietary (Photoinitiator) (125051-32-3)

| | |
|------------------------------------|--|
| LC50 - Fish [1] | > 100 mg/l Test organisms (species): other:ZEBRA FISH |
| EC50 - Other aquatic organisms [1] | 2.15 mg/l Test organisms (species): other aquatic crustacea:DM |

Proprietary (Triacrylate) (40220-08-4)

| | |
|----------------------------|---|
| LC50 - Fish [1] | 9.43 mg/l (Danio rerio (zebra fish)) (Method: OECD Test Guideline 203) |
| EC50 - Crustacea [1] | 158.3 mg/l (Method: OECD Test Guideline 202)EC50, 48 h (Daphnia magna (Water flea)) |
| EC50 72h - Algae [1] | 25.7 mg/l Pseudokirchneriella subcapitata (green algae) I (Method: OECD Test Guideline 201) |
| ErC50 other aquatic plants | 12.9 mg/l ErC10, 72 h (Pseudokirchneriella subcapitata (green algae)) (Method: OECD Test Guideline 201) |
| NOEC (chronic) | ≥ 100 mg/l NOEC, 14 d (Activated sludge)(Respiration inhibition) |

Proprietary (Diacylate) (57472-68-1)

| | |
|----------------------|--|
| LC50 - Fish [1] | 2.2 – 4.64 mg/l Test organisms (species): Leuciscus idus |
| EC50 - Crustacea [1] | 22.3 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 16.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)

| | |
|----------------------|--|
| LC50 - Fish [1] | 10.1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | > 1.2 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 0.68 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| NOEC chronic algae | 0.21 mg/l NOEC Green Algae (Desmodesmus subspicatus), 72hr, Growth Inhibition (OECD 201) |

12.2. Persistence and degradability

Proprietary (Photoinitiator) (125051-32-3)

| | |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |
|-------------------------------|---|

Proprietary (Triacrylate) (40220-08-4)

| | |
|-------------------------------|--|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| Biodegradation | 14.5 – 19.7 % after 28 d (Method: OECD Test Guideline 301 F) |

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

Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)

| | |
|----------------|-------------------------------------|
| Biodegradation | 22 % Ready biodegradability 28 days |
|----------------|-------------------------------------|

12.3. Bioaccumulative potential

Proprietary (Triacrylate) (40220-08-4)

| | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1.09 – 2.61 25 °C (OECD Test Guideline 117) |
|---|---|

Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)

| | |
|---|-----------------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.39 @ 20 °C OECD 117 |
|---|-----------------------|

12.4. Mobility in soil

Proprietary (Triacrylate) (40220-08-4)

| | |
|--|--|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.79 (Method: calculated) Absorption / desorption: |
|--|--|

12.5. Results of PBT and vPvB assessment

Component

| | |
|---------------------------------------|--|
| Proprietary (Diacrylate) (52404-33-8) | PBT: not relevant – no registration required |
|---------------------------------------|--|

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. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : Avoid release to the environment. Comply with applicable regulations for solid waste disposal. Dispose in a safe manner in accordance with local/national regulations. |
| Additional information | : Clean up even minor leaks or spills if possible without unnecessary risk. |
| Ecological waste information | : Avoid release to the environment. |

SECTION 14: Transport information



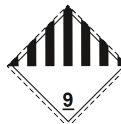


In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| 14.1. UN number | | | | |
| UN 3082 | UN 3082 | UN 3082 | UN 3082 | UN 3082 |
| 14.2. UN proper shipping name | | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dipropylene Glycol Diacrylate ; Tris(2-hydroxyethyl) Isocyanurate Triacrylate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dipropylene Glycol Diacrylate ; Tris(2-hydroxyethyl) Isocyanurate Triacrylate) | Environmentally hazardous substance, liquid, n.o.s. (Dipropylene Glycol Diacrylate ; Tris(2-hydroxyethyl) Isocyanurate Triacrylate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dipropylene Glycol Diacrylate ; Tris(2-hydroxyethyl) Isocyanurate Triacrylate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dipropylene Glycol Diacrylate ; Tris(2-hydroxyethyl) Isocyanurate Triacrylate) |

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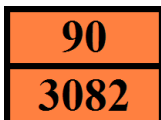
Classification according to Regulation (EC) No. 1272/2008 [CLP]

| Transport document description | | | | |
|---|---|--|--|--|
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dipropylene Glycol Diacylate ; Tris(2- hydroxyethyl) Isocyanurate Triacrylate), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dipropylene Glycol Diacylate ; Tris(2- hydroxyethyl) Isocyanurate Triacrylate), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Dipropylene Glycol Diacylate ; Tris(2- hydroxyethyl) Isocyanurate Triacrylate), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dipropylene Glycol Diacylate ; Tris(2- hydroxyethyl) Isocyanurate Triacrylate), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dipropylene Glycol Diacylate ; Tris(2- hydroxyethyl) Isocyanurate Triacrylate), 9, III |
| 14.3. Transport hazard class(es) | | | | |
| 9 | 9 | 9 | 9 | 9 |
|  |  |  |  |  |
| 14.4. Packing group | | | | |
| III | III | III | III | III |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : Yes | Dangerous for the environment : Yes Marine pollutant : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

| | |
|---|---------------------------|
| Classification code (ADR) | : M6 |
| Special provisions (ADR) | : 274, 335, 375, 601 |
| Limited quantities (ADR) | : 5I |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR) | : PP1 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : T4 |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP29 |
| Tank code (ADR) | : LGBV |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Packages (ADR) | : V12 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13 |
| Hazard identification number (Kemler No.) | : 90 |
| Orange plates | : |



| | |
|-------------------------------|-------|
| Tunnel restriction code (ADR) | : - |
| EAC code | : •3Z |

Transport by sea

| | |
|-----------------------------------|-----------------|
| Special provisions (IMDG) | : 274, 335, 969 |
| Limited quantities (IMDG) | : 5 L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : LP01, P001 |
| Special packing provisions (IMDG) | : PP1 |

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| | |
|---------------------------------|-------------|
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T4 |
| Tank special provisions (IMDG) | : TP1, TP29 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-F |
| Stowage category (IMDG) | : A |

Air transport

| | |
|--|-------------------------|
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y964 |
| PCA limited quantity max net quantity (IATA) | : 30kgG |
| PCA packing instructions (IATA) | : 964 |
| PCA max net quantity (IATA) | : 450L |
| CAO packing instructions (IATA) | : 964 |
| CAO max net quantity (IATA) | : 450L |
| Special provisions (IATA) | : A97, A158, A197, A215 |
| ERG code (IATA) | : 9L |

Inland waterway transport

| | |
|-----------------------------------|----------------------|
| Classification code (ADN) | : M6 |
| Special provisions (ADN) | : 274, 335, 375, 601 |
| Limited quantities (ADN) | : 5 L |
| Excepted quantities (ADN) | : E1 |
| Equipment required (ADN) | : PP |
| Number of blue cones/lights (ADN) | : 0 |

Rail transport

| | |
|---|---------------------------|
| Classification code (RID) | : M6 |
| Special provisions (RID) | : 274, 335, 375, 601 |
| Limited quantities (RID) | : 5L |
| Excepted quantities (RID) | : E1 |
| Packing instructions (RID) | : P001, IBC03, LP01, R001 |
| Special packing provisions (RID) | : PP1 |
| Mixed packing provisions (RID) | : MP19 |
| Portable tank and bulk container instructions (RID) | : T4 |
| Portable tank and bulk container special provisions (RID) | : TP1, TP29 |
| Tank codes for RID tanks (RID) | : LGBV |
| Transport category (RID) | : 3 |
| Special provisions for carriage – Packages (RID) | : W12 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31 |
| Colis express (express parcels) (RID) | : CE8 |
| Hazard identification number (RID) | : 90 |

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 substance(s) listed on REACH Annex XVII (Restriction Conditions)
Contains no substance(s) listed on the REACH Candidate List
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

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)

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Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

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 : PI-784 is listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

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 |
| BLV | Biological limit value |
| CAS-No. | Chemical Abstract Service number |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| EC-No. | European Community number |
| EN | European Standard |
| 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 |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |

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| | |
|-----|--------------------|
| WGK | Water Hazard Class |
|-----|--------------------|

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Sol. 1 | Flammable solids, Category 1 |
| H228 | Flammable solid. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H361f | Suspected of damaging fertility. |
| 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. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| 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 |

SDS EU (REACH Annex II) Photocentric Amended

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.