

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 18/02/2021 Version: 1.0

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

#### 1.1. Product identifier

Product form Trade name	-	Mixture Hard Crystal Clear
Type of product		Photocentric UV Resin
Synonyms Other means of identification		UV DLP Crystal Clear DLPHDCCL01

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

#### 1.2.1. Relevant identified uses

Main use category Use of the substance/mixture Industrial use,Professional use,Consumer use
 For use in DLP Printers
 For use in UV Printers

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Supplier	Distributor
Photocentric Ltd	Photocentric Inc
Titan House	855 N. 107th Ave
20 Titan Drive	Suite A110
Peterborough, PE1 5XN - United Kingdom	85323 Avondale, Arizona - United States
T +44 (0) 1733 349937 (UK Office hours only)	T 006235813220 x1009 (USA Office hours only)
info@photocentric.co.uk - https://photocentricgroup.com/	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 2	H319
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

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

#### 2.2. Label elements

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

Hazard pictograms (CLP)



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Signal word (CLP)	: Warning		
Contains	: Proprietary (Diacrylate); Proprietary (Triacrylate); Proprietary (Photoinititor)		
Hazard statements (CLP)	: H315 - Causes skin irritation.		
	H317 - May cause an allergic skin reaction.		
	H319 - Causes serious eye irritation.		
	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.		
	P321 - Specific treatment (see supplemental first aid instruction on this label).		
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.		
	P337+P313 - If eye irritation persists: Get medical advice/attention.		
	P362+P364 - Take off contaminated clothing and wash it before reuse.		
	P391 - Collect spillage.		
	P501 - Dispose of contents and container to hazardous or special waste collection point, in		
	accordance with local, regional, national and/or international regulation, a licensed		
	hazardous-waste disposal contractor or collection site except for empty clean containers		
	which can be disposed of as non-hazardous waste.		

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 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 (Aliphatic urethane methacrylate)	≥ 25 – < 50	Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Proprietary (Diacrylate)	≥ 5 – < 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Proprietary (Diacrylate)	≥5-<10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Proprietary (Triacrylate)	≥ 5 – < 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Proprietary (Photoinititor)	≥ 0.1 – < 1	Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

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#### **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. If you feel unwell, seek medical advice (show the label where possible). 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. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell. 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 : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. First-aid measures after ingestion Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. If swallowed, seek medical advice immediately and show this container or label. Rinse mouth out with water. Call a poison center or a doctor if you feel unwell. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/effects after inhalation : Inhalation may cause irritation (cough, short breathing, difficulty in breathing). May cause reeniratory irritation

Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage. Eye irritation.
Symptoms/effects after ingestion	: May be 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 Unsuitable extinguishing media	<ul><li>Water spray. Dry powder. Foam. Carbon dioxide.</li><li>Do not use a heavy water stream.</li></ul>
5.2. Special hazards arising from the subst	tance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>In case of fire, irritating fumes come free.</li> <li>No direct explosion hazard.</li> <li>Toxic fumes may be released.</li> </ul>
5.3. Advice for firefighters	
Precautionary measures fire Firefighting instructions	<ul> <li>Keep cool. Protect from sunlight. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.</li> <li>Do not enter fire area without proper protective equipment, including respiratory protection. Evacuate area. In case of fire: stop leak if safe to do so. Prevent fire fighting water from entering the environment.</li> </ul>
Protection during firefighting Other information	<ul> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> <li>High temperature decomposition products are harmful by inhalation.</li> </ul>

SECTION 6: Accidental release r	neasures
6.1. Personal precautions, protective	e equipment and emergency procedures
General measures	: Avoid contact with skin and eyes. Evacuate area. May be harmful to aquatic organisms, to flora, to soil organisms. Clean up any spills as soon as possible, using an absorbent material to collect it.

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6.1.1. For non-emergency personnel	
Protective equipment Emergency procedures	<ul> <li>Wear recommended personal protective equipment.</li> <li>Only qualified personnel equipped with suitable protective equipment may intervene. See section 8 of the SDS for more information on personal protective equipment. Avoid breathing vapours, spray, mist.</li> </ul>
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Protective gloves. Safety glasses. 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.

6.3. Methods and material for contain	ment 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 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling	<ul> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li>Ensure good ventilation of the work station. Use only outdoors or in a well-ventilated area. Avoid breathing vapours, spray, mist. Avoid contact with skin and eyes. Wear personal protective equipment.</li> </ul>
Handling temperature Hygiene measures	<ul> <li>: &lt; 50 °C</li> <li>: Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product.</li> </ul>
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures	: Ensure adequate ventilation, especially in confined areas. Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.
Incompatible materials	: Direct sunlight.
Storage temperature	: <25 °C
7.3. Specific end use(s)	

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

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

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#### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Safety glasses. Wear recommended personal protective equipment. Gloves.

#### Materials for protective clothing:

Wear suitable protective clothing and gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of inadequate ventilation wear respiratory protection.

#### Personal protective equipment symbol(s):



## 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	:	clear.
Odour	:	characteristic.
Odour threshold	:	No data available
рН	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density at 20°C	:	No data available
Relative density	:	No data available
Density	:	1.09 g/ml
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	899.083 mm²/s
Viscosity, dynamic	:	980 mPa∙s @25C
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

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#### 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	
Proprietary (Aliphatic urethane methacrylate) (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 bw/day
LC50 Inhalation - Rat (Dust/Mist)	> 5 mg/l/4h
Proprietary (Diacrylate) (13048-33-4)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral

LD50 oral rat	> 5000 mg/kg bodyweight Animai: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	3650 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Proprietary (Diacrylate) (42594-17-2)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))

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Proprietary (Triacrylate) (15625-89-5)	
LD50 oral rat	> 2000 mg/kg literature
LD50 dermal rabbit	5170 mg/kg Source: RTECS

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

Proprietary (Triacrylate) (15625-89-5)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity :	Not classified
STOT-single exposure :	Not classified
STOT-repeated exposure	Not classified

Proprietary (Diacrylate) (13048-33-4)	
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 (Diacrylate) (42594-17-2)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- Day Oral Toxicity in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))

Proprietary (Triacrylate) (15625-89-5)	
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 (Photoinititor) (162881-26-7)	
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight Animal: rat, Guideline: other:92/69/eec
Aspiration hazard :	Not classified

Hard Crystal Clear	
Viscosity, kinematic	899.083 mm²/s
Potential adverse human health effects and symptoms Other information	<ul> <li>Harmful if swallowed. Irritation: severely irritant to eyes. Irritation: may cause irritation to the respiratory system.</li> <li>Likely routes of exposure: skin and eye.</li> </ul>

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#### **SECTION 12: Ecological information** 12.1. Toxicity : The product is not considered harmful to aquatic organisms nor to cause long-term adverse Ecology - general effects in the environment. Toxic to aquatic life with long lasting effects. Hazardous to the aquatic environment, short-term : Not classified (acute)

: Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, long-term (chronic) Not rapidly degradable

Proprietary (Aliphatic urethane methacrylate) (72869-86-4)	
LC50 - Fish [1]	≥ 10.1 mg/l Zebra Fish (Brachydanio rerio)
EC50 - Crustacea [1]	> 1200 μg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 0.68 mg/l
NOEC chronic algae	0.21 mg/l Green Algae (Desmodesmus subspicatus)

Proprietary (Diacrylate) (13048-33-4)	
LC50 - Fish [1] 4.6 – 10 mg/l Test organisms (species): Leuciscus idus	
EC50 - Crustacea [1]	2.6 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1.5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Proprietary (Diacrylate) (42594-17-2)		
EC50 - Crustacea [1]	2.36 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	1.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 72h - Algae [2]	0.71 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	

Proprietary (Triacrylate) (15625-89-5)	
LC50 - Fish [1] 1.47 mg/l Test organisms (species): Leuciscus idus	
EC50 96h - Algae [1]	4.86 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Proprietary (Photoinititor) (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)

## 12.2. Persistence and degradability

Proprietary (Aliphatic urethane methacrylate) (72869-86-4)	
Persistence and degradability Not established.	
Biodegradation	22 % CO2 Evolution: Modified Sturm (OECD 301B)

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12.3. Bioaccumulative potential		
Proprietary (Aliphatic urethane methacrylate) (72869-86-4)		
Partition coefficient n-octanol/water (Log Pow) 3.39		
Bioaccumulative potential	No bioaccumulation data available.	
Proprietary (Triacrylate) (15625-89-5)		
Partition coefficient n-octanol/water (Log Pow) 2.86 Source: QSAR		
12.4. Mobility in soil		
No additional information available		

12.5. Results of PBT and vPvB assessment	
Component	
Proprietary (Aliphatic urethane methacrylate) (72869- 86-4) 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. : Disposal must be done according to official regulations. Sewage disposal recommendations Avoid release to the environment. Comply with applicable regulations for solid waste Product/Packaging disposal recommendations : 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. Consult an expert on waste disposal or treatment. Ecological information Avoid release to the environment. :

#### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping	14.2. UN proper shipping name			
ENVIRONMENTALLY	ENVIRONMENTALLY	Environmentally hazardous	ENVIRONMENTALLY	ENVIRONMENTALLY
HAZARDOUS	HAZARDOUS	substance, liquid, n.o.s. (DI-	HAZARDOUS	HAZARDOUS
SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,	HEMA TRIMETHYLHEXYL	SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,
N.O.S. (DI-HEMA	N.O.S. (DI-HEMA	DICARBAMATE ;	N.O.S. (DI-HEMA	N.O.S. (DI-HEMA
TRIMETHYLHEXYL	TRIMETHYLHEXYL	Tricyclodecane dimethanol	TRIMETHYLHEXYL	TRIMETHYLHEXYL
DICARBAMATE ;	DICARBAMATE ;	Diacrylate)	DICARBAMATE ;	DICARBAMATE ;
Tricyclodecane dimethanol	Tricyclodecane dimethanol		Tricyclodecane dimethanol	Tricyclodecane dimethanol
Diacrylate)	Diacrylate)		Diacrylate)	Diacrylate)

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Transport document descr	iption			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE ; Tricyclodecane dimethanol Diacrylate), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE ; Tricyclodecane dimethanol Diacrylate), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE ; Tricyclodecane dimethanol Diacrylate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE ; Tricyclodecane dimethanol Diacrylate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE ; Tricyclodecane dimethanc Diacrylate), 9, III
14.3. Transport hazard o	class(es)			
9	9	9	9	9
14.4. Packing group	1	1	1	1
	III	III	III	III
14.5. Environmental haz	zards			<u>.</u>
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
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Special packing provisions (A Mixed packing provisions (ADR) Portable tank and bulk contai Portable tank and bulk contai (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriag Special provisions for carriag and handling (ADR) Hazard identification number Orange plates	: 51 : E1 : P0 DR) : PP DR) : MF ner instructions (ADR) : T4 ner special provisions : TP : LG : AT : 3 e - Packages (ADR) : V1 e - Loading, unloading : CV	4, 335, 375, 601 01, IBC03, LP01, R001 1 19 1, TP29 BV		
Tunnel restriction code (ADR EAC code <b>Transport by sea</b> Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	: •32 : 274 : 5 L : E1	<b>3082</b> 4, 335, 969		

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	, , ,
Special packing provisions (IMDG)	: PP1
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	: TP1, TP29
(RID)	
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	
Special provisions for carriage - Loading, unloading	: CW13, CW31
and handling (RID)	
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)

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#### 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 2, Significantly 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	: None of the components are 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 The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

#### 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
ΙΑΤΑ	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
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Full text of H- and EUH-statements:	
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
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
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.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A

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.