Photocentric Pro Hard Black

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Issue date: 14/12/2020 Revision date: 17/04/2025 Supersedes version of: 20/04/2024 Version: 2.0

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	Pro Hard Black
Type of product	:	Photopolymer

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

Relevant identified uses

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

1.3. Details of the supplier of the safety data sheet

Manufacturer	Distributor
Photocentric Ltd	Photocentric Inc
Titan House	855 N. 107th Ave
20 Titan Drive	Suite A110
Peterborough, PE1 5XN, Cambridgeshire	85323 Avondale, Arizona, AZ
United Kingdom	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 sensitisation, Category 1	H317
Hazardous to the aquatic environment – Acute Hazard,	H400
Category 1	
Hazardous to the aquatic environment – Chronic Hazard,	H411
Category 2	
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. 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)		¥2
	GHS07	GHS09

Signal word (CLP) Contains

- : Warning
 - : Proprietary (Dimethacrylate); Proprietary (Crosslinking agent); Proprietary (Photoinititor)

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Hazard statements (CLP)	: H317 - May cause an allergic skin reaction.
	H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing fume, mist, spray, vapours.vapours, fume, spray.
	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.
	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 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

Component

PBT: not relevant - no registration required

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component

Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

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 (Dimethacrylate)	≥ 10 – < 15	Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Proprietary (Crosslinking agent)	≥1-<3	Eye Irrit. 2, H319 Skin Sens. 1, H317
Proprietary (Photoinitiator)	≥1-<3	Flam. Sol. 1, H228 Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 2, H411
Proprietary (Diacrylate)	≥ 0.1 – < 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Proprietary (Crosslinking agent)	≥ 0.1 – < 1	Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

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

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	: If experiencing respiratory symptoms: Call a poison center or a doctor. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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	: 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. If swallowed, seek medical advice immediately and show this container or label. 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	: May be harmful if inhaled. May be harmful in contact with skin. May be harmful if swallowed and enters airways.	
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 Symptoms/effects after ingestion	 May cause eye irritation. May be harmful if swallowed. May cause irritation to the digestive tract. 	
4.3. Indication of any immediate medic	al 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	Water spray. Dry powder. Foam. Carbon dioxide.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 Firefighting instructions	 Evacuate area. Keep cool. Protect from sunlight. Do not enter fire area without proper protective equipment, including respiratory protection. Evacuate area. Exercise caution when fighting any chemical fire. 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.	

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Other information

: High temperature decomposition products are harmful by inhalation.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Avoid contact with skin and eyes.	
For non-emergency personnel		
Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	 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 mist, spray, vapours. 	
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	inment 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 Precautions for safe handling	 Not expected to present a significant hazard under anticipated conditions of normal use. Use only outdoors or in a well-ventilated area. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. 	
Handling temperature Hygiene measures	 < 40 °C Wear personal protective equipment. 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. Always wash hands after handling the product. 	
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 locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Direct sunlight. 	
Storage temperature	: 10 <t>50□C</t>	

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

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Safety glasses. Wear recommended personal protective equipment. Gloves.



Eye and face protection

Eye protection: Safety glasses

Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Wear protective gloves

Other skin protection Materials for protective clothing: Wear suitable protective clothing and gloves

Respiratory protection

Respiratory protection: In case of inadequate ventilation wear respiratory protection.

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

	Liquid
:	Black.
:	Liquid.
:	characteristic.
:	Not available
:	Not applicable
:	Not available
:	Not available
:	Not applicable
:	Not 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 hazard classes as defined in Regulation (EC) No 1272/2008

Guideline: OECD Guideline 401 (Acute Oral		
Proprietary (Dimethacrylate)		

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LD50 oral rat LD50 dermal rabbit Proprietary (Crosslinking agent)	 > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral)) > 13200 mg/kg bodyweight Animal: rabbit
	> 13200 mg/kg bodyweight Animal: rabbit
Proprietary (Crosslinking agent)	
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)	
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 (Photoinititor)	
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 (Diacrylate)	
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))
Skin corrosion/irritation :	Not classified
Proprietary (Dimethacrylate)	
рН	6 – 8 (concentrated solution)
Serious eye damage/irritation :	Not classified
Proprietary (Dimethacrylate)	
рН	6 – 8 (concentrated solution)
Respiratory or skin sensitisation :	May cause an allergic skin reaction.
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	Not classified
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Proprietary (Dimethacrylate)	
NOAEL (oral, rat, 28 days)	1000 mg/kg bodyweight/day Oral, Rat
NOAEL (dermal, rat/rabbit, 28 days)	1000 mg/kg bodyweight/day Dermal, Mouse
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Proprietary (Crosslinking agent)	
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)

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Proprietary (Crosslinking agent)		
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)	
STOT-repeated exposure	May cause damage to organs (digestive organs, circulatory organs) through prolonged or repeated exposure (if inhaled, if swallowed, in contact with skin).	
Proprietary (Photoinitiator)		
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	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Proprietary (Photoinititor)		
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight Animal: rat, Guideline: other:92/69/eec	
Proprietary (Diacrylate)		
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))	
Aspiration hazard	Not classified	
Proprietary (Dimethacrylate)		
Viscosity, kinematic	4.579 – 27.473 mm²/s	
11.2. Information on other hazards		
Other information		
Potential adverse human health effects and symptoms Other information	 Harmful if swallowed,Irritation: severely irritant to eyes,Irritation: may cause irritation to the respiratory system Likely routes of exposure: skin and eye. 	

12.1. Toxicity

Tarifi Tokiony	
Hazardous to the aquatic environment, short-term : (acute)	Toxic to aquatic life with long lasting effects. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Proprietary (Aliphatic urethane methacrylate)	
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 (Dimethacrylate)	
LC50 - Fish [1]	16.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	72.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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Proprietary (Dimethacrylate)		
LOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
Proprietary (Crosslinking agent)		
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)		
LC50 - Fish [1]	0.034 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
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)		
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 (Photoinititor)		
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 (Diacrylate)		
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)	

12.2. Persistence and degradability

Pro Hard Black		
Persistence and degradability	Not rapidly degradable	
Proprietary (Aliphatic urethane methacrylate)		
Persistence and degradability	Not established.	
Biodegradation	22 % CO2 Evolution: Modified Sturm (OECD 301B)	
Proprietary (Dimethacrylate)		
Persistence and degradability	Not rapidly degradable	
Proprietary (Crosslinking agent)		
Persistence and degradability	Not rapidly degradable	

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Proprietary (Crosslinking agent)		
Persistence and degradability	Not rapidly degradable	
Proprietary (Photoinitiator)		
Persistence and degradability	Biodegradability in water: no data available.	
Proprietary (Photoinititor)		
Persistence and degradability	Not rapidly degradable	
Proprietary (Diacrylate)		
Persistence and degradability	Not rapidly degradable	
12.3. Bioaccumulative potential		
Proprietary (Aliphatic urethane methacrylate)		
Partition coefficient n-octanol/water (Log Pow)	3.39	
Bioaccumulative potential	No bioaccumulation data available.	
Proprietary (Dimethacrylate)		
Partition coefficient n-octanol/water (Log Pow)	1.88 Source: ChemIDplus	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Component		
PBT: not relevant – no registration required		

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste treatment methods Sewage disposal recommendations	 Dispose of contents/container in accordance with licensed collector's sorting instructions. 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. Consult an expert on waste disposal or treatment.	
Ecological waste information	: Avoid release to the environment.	

SECTION 14: Transport information

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

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber			
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE)	Environmentally hazardous substance, liquid, n.o.s. (DI- HEMA TRIMETHYLHEXYL DICARBAMATE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE)
Transport document descr	iption			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-HEMA TRIMETHYLHEXYL DICARBAMATE), 9, III
14.3. Transport hazard o	lass(es)			
9	9	9	9	9
14.4. Packing group				
III	III	III	III	Ш
14.5. Environmental haz	ards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-F	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary informatio	n available	11		
14.6. Special precautions	s for user			
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Special packing provisions (AI Mixed packing provisions (AD Portable tank and bulk contair Portable tank and bulk contair (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR)	: M6 : 274 : 51 : E1 : P0 DR) : PP R) : MF ner instructions (ADR) : T4	4, 335, 375, 601 01, IBC03, LP01, R001 1 19 1, TP29 BV		

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	`	-,
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV13
Hazard identification number (Kemler No.)	:	90
Orange plates	:	00
		90
		3082
		3082
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
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	T4
Tank special provisions (IMDG)	:	TP1, TP29
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
Carriage permitted (ADN)		T
Equipment required (ADN)	:	PP
Number of blue cones/lights (ADN)	÷	0
3 ()		
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, R00
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)	:	W12
Special provisions for carriage - Loading, unloading	:	CW13, CW31
and handling (RID)		
Colis express (express parcels) (RID)	:	CE8
Hazard identification number (RID)	:	90

R001

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

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

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

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

National regulations

Germany

VOC ordinance (ChemVOCFarbV)	
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Employment restrictions Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	 Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG). WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1). Is not subject to the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling	 None of the components are listed None of the components are listed None of the components are listed PI-784 is listed 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

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Poland	
Polish National Regulations	: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
	Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
	The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of
	packaging and packaging waste (J. o L. 2016, item 1863 as amended).
	Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
	Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item
	1367 as amended; consolidated text J. o L. 2020, item 154).
	Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the
	highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
	The announcement of Minister of Health dated 9 September 2016 concerning the
	consolidated text announcement of the decree of the Minister of Health of 30 December
	2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
	Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
	Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
	ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of
	Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

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	

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Abbreviations and acronyms:		
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	
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:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Sol. 1	Flammable solids, Category 1	
Repr. 2	Reproductive toxicity, 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	
H228	Flammable solid.	
H302	Harmful if swallowed.	
H317	May cause an allergic skin reaction.	
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.	
H412	Harmful to aquatic life with long lasting effects.	

New SDS EU (REACH Annex II) Photocentric Amended NoCAS

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.