Phot Contric DURABLE UV 80

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 1/4/2021 Revision date: 6/4/2022 Version: 2.1

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

1.1. Product identifier

Product form	
Generic name	
Type of product	

 Mixture : DURABLE UV 80 : Photocentric UV Resin

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 UV 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, UK Cambridge House Oxney Road Peterborough, PE1 5YW - United Kingdom T +44 (0)1733349937 info@photocentric.co.uk - https://photocentricgroup.com/

1.4. Emergency telephone number

Emergency number

: +44 (0) 1733 349937 (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]

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Specific target organ toxicity — Single exposure, Category 3,	H335
Respiratory tract irritation	
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412
Full text of H-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful 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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Contains	: Proprietary (Monomer); Proprietary (Photoinititor)
Hazard statements (CLP)	: H302 - Harmful if swallowed.
	H315 - Causes skin irritation.
	H317 - May cause an allergic skin reaction.
	H318 - Causes serious eye damage.
	H335 - May cause respiratory irritation.
	H412 - Harmful 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.
	P280 - Wear eye protection, protective clothing, protective gloves.
	P301+P312 - IF SWALLOWED: Call doctor if you feel unwell.
	P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
	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.
	P312 - Call doctor if you feel unwell.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
	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

Other hazards not contributing to the classification

: None under normal conditions.

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 (Diacrylate)	≥ 50 – < 70	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Proprietary (Monomer)	≥ 25 – < 50	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Proprietary (Oligomer)	≥ 3 – < 5	Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Proprietary (Photoinititor)	≥ 1 – < 3	Skin Sens. 1, H317 Aquatic Chronic 4, H413
Proprietary (Diacrylate)	≥ 0.1 – < 1	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

: Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

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First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. 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. 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 eas to do. Continue rinsing. Call a physician immediately.	
First-aid measures after ingestion	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Provide rest, warmth and fresh air. Immediately rinse mouth and drink plently of water (200-300 ml . Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and e	ffects, both acute and delayed	
Symptoms/effects Symptoms/effects after inhalation	: Harmful in contact with skin. May be harmful if inhaled. May be harmful in contact with skin. : Inhalation may cause irritation (cough, short breathing, difficulty in breathing). May cause	

Symptoms/effects after skin contact	
Symptoms/effects after eye contact	
Symptoms/effects after ingestion	

ct : May be harmful in contact with skin. Irritation. May cause an allergic skin reaction. ct : Serious damage to eyes.

: 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.

respiratory irritation.

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			
Fire hazard Explosion hazard Reactivity in case of fire Hazardous decomposition products in case of fire	 In case of fire, corrosive gases come free. In case of fire and/or explosion do not breathe fumes. No data available on direct explosion hazard. Corrosive vapours. Toxic fumes may be released. 		
5.3. Advice for firefighters			
Precautionary measures fire Protection during firefighting	 Keep away from combustible materials. Keep container closed when not in use. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame. Do not attempt to take action without suitable protective equipment. Self-contained heat this exact a structure of the sector of the sector. 		
Other information	breathing apparatus. Complete protective clothing.High temperature decomposition products are harmful by inhalation.		

SECTION 6: Accidental release measures			
6.1. Personal precautions, prote	ctive equipment and emergency procedures		
General measures	 Avoid contact with skin and eyes. Clean up any spills as soon as possible, using an absorbent material to collect it. Do not handle until all safety precautions have been read and understood. Evacuate area. 		
6.1.1. For non-emergency personnel			
Protective equipment Emergency procedures	 Wear recommended personal protective equipment. 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 fume, mist, spray, vapours.

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6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal
F	protection".
Emergency procedures	: Evacuate unnecessary personnel. Ventilate area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

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	iment 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.
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 storag	e
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. Avoid contact with skin, eyes and clothing. Use only outdoors or in a well-ventilated area. Avoid breathing fume, mist, spray, vapours. Avoid contact with skin and eyes. Wear personal protective equipment.
Handling temperature Hygiene measures	 10 – 50 °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, incl	uding any incompatibilities
Storage conditions Incompatible materials Storage temperature Storage area Packaging materials	 Store in a well-ventilated place. Keep cool. Keep container tightly closed. Direct sunlight. ≥ 25 °C Store away from heat. Store in a well-ventilated place. Do not store in corrodable metal. Store always product in container of same material as original container.
7.2. Creatific and was(a)	

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

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Wear recommended personal protective equipment. Safety glasses. Gloves.

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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.

Consumer exposure controls:

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Liquid.
Colour	:	Black.
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 (solid, gas)	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	1.1 g/ml
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	363.636 mm²/s
Viscosity, dynamic	:	400 (300 – 500) mPa⋅s
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: Stabilit	v and reactivity
	y 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 (dermal)	Harmful if swallowed. Not classified Not classified	
DURABLE UV 80		
ATE CLP (oral)	826.537 mg/kg bodyweight	
Proprietary (Diacrylate)		
LD50 oral rat	> 2000 mg/kg	
Proprietary (Monomer)		
LD50 oral rat	300 – 2000 mg/kg bodyweight	
LD50 dermal rat	> 2000 mg/kg bodyweight	
Proprietary (Oligomer)		
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
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	

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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	: 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
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
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
DURABLE UV 80	
Viscosity, kinematic	363.636 mm²/s
Potential adverse human health effects and symptoms Other information	 Harmful if swallowed. Harmful in contact with skin. Irritation: severely irritant to eyes. Irritation: may cause irritation to the respiratory system. Likely routes of exposure: ingestion, skin and eye.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general Ecology - water Hazardous to the aquatic environment, short-term (acute)	 Harmful to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Not classified
Hazardous to the aquatic environment, long-term (chronic) Not rapidly degradable	: Harmful to aquatic life with long lasting effects.

Proprietary (Oligomer)	
LC50 fish 1	10.1 mg/l
EC50 Daphnia 1	> 1200 μg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	> 0.68 mg/l

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Proprietary (Photoinititor)	
LC50 fish 1	> 0.09 mg/l Test organisms (species): other:Zebra Fish Brachydanio rerio
EC50 Daphnia 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 Daphnia 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)

122	Poreistoneo	and degradability
12.2.	Persistence	and degradability

Proprietary (Oligomer)		
Not established.		
12.3. Bioaccumulative potential		
Proprietary (Monomer)		
0.8		

Proprietary (Oligomer)	
Partition coefficient n-octanol/water (Log Pow) 3.39	
Bioaccumulative potential No bioaccumulation data available.	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessme	nt
Component	
Proprietary (Diacrylate) (52404-33-8)	PBT: not relevant – no registration required
Proprietary (Oligomer) (72869-86-4)	PBT: not relevant – no registration required
12.6. Other adverse effects	

Additional information

: Avoid release to the environment.

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.
Ecology - waste materials	: Avoid release to the environment.

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SECTION 14: Transport information

n accordance with ADR / RID / IMDG / IATA / ADN					
ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number	14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary information available					

14.6. Special precautions for user

Overland transport Not regulated Transport by sea Not regulated Air transport Not regulated Inland waterway transport Not regulated Rail transport Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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

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

15.1.2. National regulations

Germany

components are listed
•
components are listed
ct of the Hazardous Incident Ordinance (12. BlmSchV)
hly hazardous to water (Classification according to AwSV, Annex 1)
strictions according Act on the Protection of Working Mothers (MuSchG) strictions according Act on the Protection of Young People in Employment

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige 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

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
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

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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
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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.
H335	May cause respiratory irritation.
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.
H413	May cause long lasting harmful effects to aquatic life.

SDS EU (REACH Annex II) Photocentric edited.

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.