

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

1.1. Product identifier

Product form : Mixture
Trade name : Centri™ Print UHD+ Graphite
Type of product : Photopolymer

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

Relevant identified uses

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

1.3. Details of the supplier of the safety data sheet

Supplier

WHW Plastics Ltd
Therm Road
HU8 7BF Hull, East Yorkshire
England
T Sales: 0800 0092 444 Head Office: 01482 329 154
Info@whwplastics.com

1.4. Emergency telephone number

Emergency number : Head Office: 01482 329 154
Info@whwplastics.com

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	
Specific target organ toxicity – Repeated exposure, Category 2	H373
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

Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) : Danger
Contains : Proprietary (Photoinitiator); Proprietary (Monomer); Proprietary (Diacylate)

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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.
- H373 - May cause damage to organs (if swallowed) through prolonged or repeated exposure.
- H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

- : P260 - Do not breathe mist, spray, vapours.
- P264 - Wash hands thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- 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.
- P301+P312 - IF SWALLOWED: Call a POISON CENTRE or 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 a POISON CENTRE or doctor if you feel unwell.
- P321 - Specific treatment (see supplemental first aid instruction on this label).
- P330 - Rinse mouth.
- 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.
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P405 - Store locked up.
- P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component

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 (Oligomer)	$\geq 25 - < 50$	Skin Irrit. 2, H315 Eye Irrit. 2, H319

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Name	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Proprietary (Monomer)	≥ 25 – < 50	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 Eye Irrit. 2, H319
Proprietary (Diacrylate)	≥ 25 – < 50	STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411 Aquatic Acute 1, H400
Proprietary (Diacrylate)	≥ 0.1 – < 1	Aquatic Chronic 1, H410 Skin Sens. 1A, H317
Proprietary (Photoinitiator)	≥ 0.1 – < 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:

Name	Specific concentration limits (%)
Proprietary (Diacrylate)	(10 ≤ C ≤ 100) STOT SE 3; H335

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. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
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. Call a physician immediately.
First-aid measures after ingestion	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth out with water. If swallowed, seek medical advice immediately and show this container or label. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: May cause an allergic skin reaction. Causes serious eye damage.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: May cause 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.

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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

- : In case of fire, irritating fumes come free.

Explosion hazard

- : No direct explosion hazard.

Reactivity in case of fire

- : Corrosive vapours.

Hazardous decomposition products in case of fire

- : Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire

- : Evacuate area. Keep container closed when not in use. Keep cool. Protect from sunlight. This product is not to be used under conditions of poor ventilation.

Firefighting instructions

- : Do not enter fire area without proper protective equipment, including respiratory protection. In case of fire: stop leak if safe to do so. 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.

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. Evacuate area. Absorb spillage to prevent material damage. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

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. Do not breathe spray, vapours, mist.

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 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 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. Notify authorities if product enters sewers or public waters.

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.

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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.
 - : Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe vapours, spray, mist. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
- Handling temperature : < 50 °C
- Hygiene measures : Wear personal protective equipment. 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

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 cool. Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Incompatible materials

- : Direct sunlight.

Storage temperature

- : < 50 °C

Storage area

- : Store in a well-ventilated place.

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.

Switzerland

Storage class (LK)

- : LK 6.1 - Toxic materials

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

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment. Safety glasses. Gloves.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety glasses

Skin protection

Skin and body protection:

Wear suitable protective clothing

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Hand protection:

Use barrier cream. Wash your hands. Wear protective gloves

Other skin protection

Materials for protective clothing:

Wear suitable protective clothing and gloves

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

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	: Grey.	: Liquid.
Colour	: characteristic.	: Not	
Appearance	available	: Not	
Odour	applicable	: Not	
Odour threshold	available	: Not available	
Melting point	: Not applicable	: Not	
Freezing point	available	: Not available	
Boiling point	: Not available	: Not	
Flammability	available	: Not available	
Lower explosion limit	: Not available	: Not	
Upper explosion limit	available	: ≥ 200 – \leq	
Flash point	400 mPa·s	: Not	
Auto-ignition temperature	available	: Not available	
Decomposition temperature	: Not available	: Not	
pH	available	: Not available	
Viscosity, kinematic	: Not available	: Not	
Viscosity, dynamic	available	: Not	
Solubility	applicable		
Partition coefficient n-octanol/water (Log Kow)			
Vapour pressure			
Vapour pressure at 50°C			
Density			
Relative density			
Relative vapour density at 20°C			
Particle characteristics			

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.

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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

May be corrosive to metals.

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

Acute toxicity (oral) : Harmful if swallowed. :
Acute toxicity (dermal) Not classified : Not
Acute toxicity (inhalation) classified

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ATE CLP (oral)	1960 mg/kg bodyweight
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Proprietary (Photoinitiator)

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 (Monomer)

LD50 oral rat	588 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	5.28 mg/l/4h

Proprietary (Oligomer)

LD50 oral rat	> 2000 mg/kg The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
LD50 dermal rat	> 5000 mg/kg The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
LC50 Inhalation - Rat	not determined

Proprietary (Diacylate)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Proprietary (Diacylate)

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)
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Proprietary (Diacrylate)	
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.
Proprietary (Monomer)	
pH	7 – 9
Serious eye damage/irritation	: Causes serious eye damage.
Proprietary (Monomer)	
pH	7 – 9
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.
Proprietary (Diacrylate)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs (if swallowed) through prolonged or repeated exposure.
Proprietary (Photoinitiator)	
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight Animal: rat, Guideline: other:92/69/eec
Proprietary (Monomer)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Proprietary (Diacrylate)	
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)	
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 (Monomer)	
Viscosity, kinematic	10.084 mm ² /s
Proprietary (Oligomer)	
Viscosity, kinematic	> 15000 – < 21000 mm ² /s

11.2. Information on other hazards

Other information

Potential adverse human health effects and symptoms

: Harmful if swallowed, Harmful in contact with skin, Irritation: severely irritant to eyes, Irritation: may cause irritation to the respiratory system

Other information

: Likely routes of exposure: ingestion, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: Harmful to aquatic life. Very toxic to aquatic life with long lasting effects.

Ecology - water

: Harmful to aquatic life with long lasting effects.

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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.

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

Proprietary (Monomer)	
EC50 72h - Algae [1]	120 mg/l

Proprietary (Diacrylate)	
LC50 - Fish [1] EC50 -	
Crustacea [1] EC50 72h -	4.6 – 10 mg/l Test organisms (species): Leuciscus idus
Algae [1]	89 mg/l Test organisms (species): Daphnia magna
	65.9 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

Centri™ Print UHD+ Graphite	
Persistence and degradability	Not rapidly degradable
Proprietary (Photoinitiator)	
Persistence and degradability	
Proprietary (Monomer)	
Persistence and degradability	Not rapidly degradable
Proprietary (Oligomer)	
Persistence and degradability	
Proprietary (Diacrylate)	
Persistence and degradability	Not rapidly degradable
Proprietary (Diacrylate)	
Persistence and degradability	Not rapidly degradable
	Not rapidly degradable
	Not rapidly degradable

12.3. Bioaccumulative potential

Proprietary (Diacrylate)	
Partition coefficient n-octanol/water (Log Pow)	2.77 Source: IUCLID

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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

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Other information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation Waste treatment methods
Sewage disposal recommendations
Product/Packaging disposal recommendations

: Disposal must be done according to official regulations.
: Dispose of contents/container in accordance with licensed collector's sorting instructions.
: Disposal must be done according to official regulations.
: 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

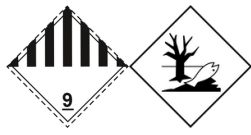
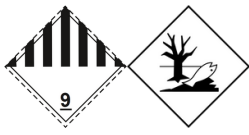
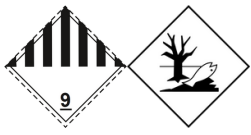
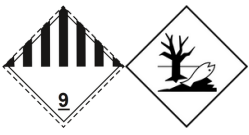
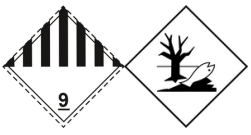
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinite(84434-11-7))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinite(84434-11-7))	Environmentally hazardous substance, liquid, n.o.s. (contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinite(84434-11-7))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinite(84434-11-7))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinite(84434-11-7))
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinite(84434-11-7)), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinite(84434-11-7)), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinite(84434-11-7)), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinite(84434-11-7)), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinite(84434-11-7)), 9, III

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ADR	IMDG	IATA	ADN	RID
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 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 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
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
Stowage category (IMDG)	: A

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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

Classificationcode (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

Rail transport

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

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)

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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

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

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

Germany

VOC ordinance (ChemVOCFarbV) :

Employment restrictions :

: Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK) :

: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance (12. BImSchV) :

: Is not subject 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 –

None of the components are listed

Vruchtbaarheid

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

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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
IATA	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 No-Observed Adverse Effect Level No-Observed Effect
NOAEL	Concentration Occupational Exposure Limit Persistent Bioaccumulative Toxic Predicted No-Effect
NOEC	Concentration Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC)
OEL	No 1907/2006 Regulations concerning the International Carriage of Dangerous Goods by Rail Safety
PBT	Data Sheet Very Persistent and Very Bioaccumulative Water Hazard Class
PNEC	
REACH	
RID	
SDS	
vPvB	
WGK	

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 Eye	Serious eye damage/eye irritation, Category 1
Irrit. 2 Skin Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Sens. 1 Skin	Skin corrosion/irritation, Category 2
Sens. 1A STOT RE	Skin sensitisation, Category 1
2 STOT SE 3 H302	Skin sensitisation, category 1A
H315 H317 H318	Specific target organ toxicity – Repeated exposure, Category 2
H319 H335 H373	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H400 H410 H411	Harmful if swallowed.
	Causes skin irritation.
	May cause an allergic skin reaction.
	Causes serious eye damage.
	Causes serious eye irritation.
	May cause respiratory irritation.
	May cause damage to organs (if swallowed) through prolonged or repeated exposure.
	Very toxic to aquatic life.
	Very toxic to aquatic life with long lasting effects.
	Toxic to aquatic life with long lasting effects.

New SDS EU (REACH Annex II) 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.