

Trade name: PLT 102 165 BLACK

Version: 8 / GB

Date revised: 19.01.2024

Substance number: 37490057180

Replaces Version: 7 / GB

Print date: 20.01.24

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

1.1. Product identifier

PLT 102 165 BLACK

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

Use of the substance/preparation

Industrial uses: Screen printing ink

Uses advised against

Use by consumers (private households), as the necessary technical measures and personal protective equipment are not available to private households.

Spray processing, as for some ingredients this use is not considered safe

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

COMEC ITALIA SRL
Piazzale del lavoro 149
21044 Cavaria (VA)
ITALIA
Tel. +39 0331 219516
Fax +39 0331 216161

info@comec-italia.it
Edgardo Baggini

1.4. Emergency telephone number

CENTRO ANTIVELENI OSPEDALE NIGUARDA MILANO Tel. 02/66101029 (24/24h) - CENTRO ANTIVELENI
POLICLINICO A.GEMELL ROMA Tel. 06/3054343 (24/24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319
Skin Sens. 1A	H317
Aquatic Chronic 2	H411

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

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H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261.9 Avoid breathing vapours/spray.
P264.1 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Trimethylolpropane ethoxylated, triacrylate; Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide; Glycerol, propoxylated, esters with acrylic acid; Fatty acid, C18-unsaturated, dimere, reaction products with N,N-dimethyl-1,3-propane diamine and 1,3-propane diamine; 2,2-Bis(acryloyloxymethyl)butyl acrylate

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients

Trimethylolpropane ethoxylated, triacrylate

CAS No. 28961-43-5
EINECS no. 500-066-5
Registration no. 01-2119489900-30
Concentration >= 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)
Eye Irrit. 2 H319
Skin Sens. 1 H317
Aquatic Chronic 3 H412

2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl) benzyl)phenyl)-2-methylpropan-1-one

CAS No. 474510-57-1
EINECS no. 444-860-9
Registration no. 01-2119904050-59
Concentration >= 1 < 2,5 %
Classification (Regulation (EC) No. 1272/2008)
Aquatic Acute 1 H400
Aquatic Chronic 1 H410
STOT RE 2 H373

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

CAS No. 162881-26-7
EINECS no. 423-340-5
Registration no. 01-2119489401-38-0000
Concentration >= 0,1 < 1 %
Classification (Regulation (EC) No. 1272/2008)

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Skin Sens. 1A H317

Aquatic Chronic 4 H413

2,2-Bis(acryloyloxymethyl)butyl acrylate

CAS No. 15625-89-5

EINECS no. 239-701-3

Registration no. 01-2119489896-11

Concentration >= 0,1 < 0,25 %

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315

Skin Sens. 1 H317

Eye Irrit. 2 H319

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Carc. 2 H351

Glycerol, propoxylated, esters with acrylic acid

CAS No. 52408-84-1

EINECS no. 500-114-5

Registration no. 01-2119487948-12

Concentration >= 0,1 < 1 %

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319

Skin Sens. 1 H317

Fatty acid, C18-unsaturated, dimere, reaction products with N,N-dimethyl-1,3-propane diamine and 1,3-propane diamine

CAS No. 162627-17-0

EINECS no. 605-296-0

Registration no. 01-2119970640-38

Concentration >= 0,1 < 1 %

Classification (Regulation (EC) No. 1272/2008)

Skin Sens. 1 H317

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

After skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners. In case of accidental skin contact avoid concurrent exposure to the sun or other sources of UV light, which may increase the sensitivity of skin.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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Adhere to personal protective measures when giving first aid

Use personal protective equipment in case of possible contact with the product (see section 8).

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further symptoms are possible.

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol resistant foam, CO₂-blanket, powders, water spray/mist

Non suitable extinguishing media

water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); dense black smoke; Carbon dioxide (CO₂); Metal oxides; Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear full chemical protective clothing. Fire fighter's clothing must conform to European standard EN469.

Other information

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Keep away sources of ignition. Remove persons to safety. Ensure adequate ventilation. Keep away unprotected persons. Avoid contact with skin, eyes and clothing. Avoid breathing vapours. For emergency responders: Wear personal protective equipment. Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Advice on safe handling

Skin and eye contact constitutes the principal hazard. Persons with a history of skin sensitisation problems should not be employed in any process in which this mixture is used. Use only in well-ventilated areas. Isolate from sources of heat, sparks and open flame. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Smoking, eating and drinking shall be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking

Classification of fires / temperature class / Ignition group / Dust explosion class

Classification of fires	B (Combustible liquid substances)
Temperature class	T4

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with national regulation

Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

Further information on storage conditions

Observe label precautions. Store between 15 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunlight. If the storage conditions are not observed, the minimum shelf life is no longer guaranteed. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in original containers. Avoid storage temperature above 60°C and direct exposure to sunlight (exothermic reactions possible).

7.3. Specific end use(s)

Screen printing ink

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Derived No/Minimal Effect Levels (DNEL/DMEL)

Trimethylolpropane ethoxylated, triacrylate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	10,5	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	37	mg/kg/d

2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl) benzyl)phenyl)-2-methylpropan-1-one

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	

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Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,71	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,1	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,17	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,05	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,05	mg/kg

Glycerol, propoxylated, esters with acrylic acid

Type of value	Derived No Effect Level (DNEL)	
Reference group	Industrial use	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	2,1	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Industrial use	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	7,4	mg/m ³

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	21	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	

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Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 3,3 mg/kg/d

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 5,2 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 1,5 mg/kg/d

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure oral
 Mode of action Systemic effects
 Concentration 1,5 mg/kg/d

2,2-Bis(acryloyloxymethyl)butyl acrylate

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 83 mg/kg/d

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 3,5 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 42 mg/kg/d

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 0,87 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer

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Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,5	mg/kg/d

Predicted No Effect Concentration (PNEC)

Trimethylolpropane ethoxylated, triacrylate

Type of value	PNEC	
Type	Soil	
Concentration	0,06	mg/kg

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,038	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,004	mg/kg

Type of value	PNEC	
Type	Freshwater	
Concentration	0,002	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,019	mg/l

2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl) benzyl)phenyl)-2-methylpropan-1-one

Type of value	PNEC	
Type	Freshwater	
Concentration	0,00056	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,000056	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,0056	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,00784	mg/kg

Type of value	PNEC	
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Type	Marine sediment	
Concentration	0,000784	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	1	mg/kg

Glycerol, propoxylated, esters with acrylic acid

Type of value	PNEC	
Type	Freshwater	
Concentration	0,006	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0.001	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,057	mg/kg

Type of value	PNEC	
Type	Sediment	
Concentration	0,078	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	0,012	mg/kg

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,008	mg/kg

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Type of value	PNEC	
Type	Freshwater	
Concentration	1	µg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	1	µg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,712	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,712	mg/kg

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Type of value	PNEC	
Type	Soil	
Concentration	5,8	mg/kg

2,2-Bis(acryloyloxymethyl)butyl acrylate

Type of value	PNEC	
Type	Freshwater	
Concentration	0,87	µg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,087	µg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	6,25	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,017	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	0,003	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,002	mg/kg

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	8,7	µg/l

8.2. Exposure controls

Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

General protective and hygiene measures

Observe the usual precautions for handling chemicals. Wearing closed work clothing is required. Wash hands and / or face before breaks and after work. Take off dirty, soaked clothes immediately. Wash soiled clothing before re-use. Store work clothing separately.

Respiratory protection

In situations where misting or flying may occur use appropriate certified respirators to EN 140. Selection of any respiratory protective equipment should ensure that it is adequate to reduce exposure to protect the worker's health and is suitable for the wearer, task and environment, including consideration of the facial features of the wearer.

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

Use gloves tested according to EN 374.

For prolonged or repeated handling, use

Appropriate Material nitrile

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Material thickness > 0,56 mm

Breakthrough time > 30 min

PVC or rubber gloves are not recommended.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection

Use safety eyewear tested according to EN ISO 16321-1 designed to protect against splash of liquids.

Body protection

Personnel should wear protective clothing. Cotton or cotton/synthetic overalls or coveralls are normally suitable.

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state liquid

Colour black

Odour of acrylic monomers

Melting point

Remarks Not applicable due to nature of the product

Freezing point

Remarks Not applicable due to nature of the product

Boiling point or initial boiling point and boiling range

Reference substance Trimethylolpropane ethoxylated, triacrylate
Value appr. 391 °C

Pressure 1.013 hPa

Source Literature value

Flammability

Flammable.

Upper and lower explosive limits

Remarks not determined

Flash point

Value > 100 °C

Method ASTM D 6450 (CCCFP)

Auto-ignition temperature

Value appr. 200 °C

Source Literature value

Decomposition temperature

Remarks No decomposition if used as prescribed.

pH value

Remarks Not applicable

Remarks substance/mixture is non-soluble (in water)

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Viscosity

kinematic

Value	> 2000	mm ² /s
Temperature	20 °C	
Method	derived from dynamic viscosity	

Solubility(ies)

Remarks Not applicable due to nature of the product

Partition coefficient n-octanol/water (log value)

Remarks Not applicable due to nature of the product

Vapour pressure

Value	8,08	hPa
Temperature	20 °C	
Method	calculated	

Density and/or relative density

Value	1,377	g/cm ³
Temperature	20 °C	
Method	DIN EN ISO 2811	

Relative vapour density

Remarks Not applicable due to nature of the product

Particle characteristics

Remarks Not applicable due to nature of the product

9.2. Other information

Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

This mixture contains materials which are unstable under the following conditions: exposure to heat (>50°C), strong UV sources.

10.3. Possibility of hazardous reactions

Keep away from free radical initiators, peroxides, strong alkalis or reactive metals. These could cause the product to polymerise exothermically.

10.4. Conditions to avoid

Unintentional contact with them should be avoided. When exposed to high temperatures may produce hazardous decomposition products.

10.5. Incompatible materials

Radical initiators, Peroxides, strongly alkaline substances, reactive metals

10.6. Hazardous decomposition products

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture). No decomposition during or intended use (see section 1).

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

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Remarks Based on available data, the classification criteria are not met.

Acute oral toxicity (Components)

2,2-Bis(acryloyloxymethyl)butyl acrylate

Species rat
LD50 5760 mg/kg

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity (Components)

Trimethylolpropane ethoxylated, triacrylate

Species rabbit
LD50 > 13200 mg/kg

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation

evaluation irritant
Remarks The classification criteria are met.

Serious eye damage/irritation (Components)

Trimethylolpropane ethoxylated, triacrylate

Species rabbit
evaluation irritant
Method OECD 405

Glycerol, propoxylated, esters with acrylic acid

evaluation strongly irritant

Sensitization

evaluation May cause sensitization by skin contact.
Remarks The classification criteria are met.

Sensitization (Components)

Trimethylolpropane ethoxylated, triacrylate

Species guinea pig
evaluation sensitizing
Method OECD 406

Glycerol, propoxylated, esters with acrylic acid

Route of exposure dermal
Species guinea pig
evaluation sensitizing
Method OECD 406

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Route of exposure dermal
Species guinea pig
evaluation sensitizing
Method OECD 406

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

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Specific Target Organ Toxicity (STOT)

Single exposure

Remarks Based on available data, the classification criteria are not met.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms such as redness, blistering, dermatitis, etc. Cases of allergic skin reactions have been observed. The liquid splashed in the eyes may cause irritation. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Fish toxicity (Components)

2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl) benzyl)phenyl)-2-methylpropan-1-one

Species	zebra fish (Brachydanio rerio)		
LC50	3,5		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	zebra fish (Brachydanio rerio)		
LC50	> 0,09		mg/l
Duration of exposure	96	h	
Method	OECD 203		
Remarks	The product was tested above its maximum solubility.		

2,2-Bis(acryloyloxymethyl)butyl acrylate

Species	zebra fish (Brachydanio rerio)		
LC50	0,87		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Daphnia toxicity (Components)

2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl) benzyl)phenyl)-2-methylpropan-1-one

Species	Daphnia magna		
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EC50	0,56		mg/l
Duration of exposure	48	h	
Method	OECD 202		

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	Daphnia magna		
EC50	> 1,175		mg/l
Duration of exposure	48	h	
Method	OECD 202		
Remarks	The product was tested above its maximum solubility.		

2,2-Bis(acryloyloxymethyl)butyl acrylate

Species	Daphnia magna		
LC50	19,9		mg/l
Duration of exposure	48	h	
Method	Regulation (EC) No. 440/2008, Annex, C.2		

Algae toxicity (Components)**2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl) benzyl)phenyl)-2-methylpropan-1-one**

Species	Desmodesmus		
EC50	3		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	Scenedesmus subspicatus		
EC50	> 0,26		mg/l
Duration of exposure	72	h	
Method	OECD 201		
Remarks	The product was tested above its maximum solubility.		

2,2-Bis(acryloyloxymethyl)butyl acrylate

Species	Desmodesmus		
EC50	4,86		mg/l
Duration of exposure	96	h	
Method	Regulation (EC) No. 440/2008, Annex, C.3		

Bacteria toxicity (Components)**2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl) benzyl)phenyl)-2-methylpropan-1-one**

Species	activated sludge		
EC50	100		mg/l
Duration of exposure	3	h	
Method	OECD 209		

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	activated sludge		
EC50	> 100		mg/l
Duration of exposure	3	h	
Method	OECD 209		
Remarks	The product was tested above its maximum solubility.		

12.2. Persistence and degradability**General information**

No data available

Biodegradability (Components)**Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

Value	1		%
Duration of test	28	d	
evaluation	not readily degradable		
Method	OECD 301B / ISO 9439 / EEC 92/69 C.4-C		

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12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

Partition coefficient n-octanol/water (log value)

Remarks Not applicable due to nature of the product

Bioconcentration factor (BCF) (Components)

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

BCF < 5

Method OECD 305 C

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Do not allow to enter drains or water courses.

Wastes and emptied containers should be classified in accordance with relevant national regulation.

The European Waste Catalogue classification of this product, when disposed of as waste is

EWC waste code 08 03 12* waste ink containing dangerous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information contact your local waste authority.

Disposal recommendations for packaging

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	-		
14.1. UN number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one, 2,2-Bis(acryloyloxymethyl)butyl acrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one, 2,2-Bis(acryloyloxymethyl)butyl acrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one, 2,2-Bis(acryloyloxymethyl)butyl acrylate)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Remarks	This product can be transported without the Environmentally Hazardous Substance / Marine Pollutant mark, if packaged in accordance with ADR / IMDG SP375 resp. and transported in sizes of <=5L or <=5Kg.	The product can be transported in accordance with IMDG Code paragraph 2.10.2.7, provided packaging not more than 5 l / 5 kg.	The product is not subject to any other provisions of IATA provided packaging of not more than 5 l / 5 kg (A197)
Limited Quantity	5 l	5 l	
Transport category	3		
14.5. Environmental hazards	-		

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

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

Major-accident categories acc. 96/82/EC

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Category	9.II	Dangerous for environment	200.000	kg	500.000	kg
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VOC

VOC (EU)	0,1	%			
VOC (EU)		1,4	g/l		

Other regulations, restrictions and prohibition regulations

The product complies with the requirements of the Persistent Organic Pollutants Regulation 2019/1021.

The product complies with the requirements of Regulation 1005/2009 on substances that deplete the ozone layer.

The product is not subject to Regulation 649/2012 on the export and import of dangerous chemicals.

Other information

The product does not contain substances of very high concern (SVHC).

Other information

All components are contained in the AICS inventory.

All components are contained in the DSL inventory.

All components are contained in the IECSC inventory.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

CLP categories listed in Chapter 3

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic, Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of

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workplace risks, as required by other health and safety legislation.