

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.06.2023

Version number 1.02 (replaces version 1.01)

Revision: 16.06.2023

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

· **1.1 Product identifier**

· **Trade name:** PU-Paste beige pc 178 uv-stab.

· **Article number:** 1902/1248

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

Not suitable for use in homemaker (DIY) applications.

Textile printing

· **Application of the substance / the mixture**

Stainer

Additive for polymers

Restricted to professional users.

· **Uses advised against**

Implants

Prostheses

Tattoo

cosmetic products

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Jakob Keck Chemie GmbH

Zweibrücker Str.189 - 193

66954 Pirmasens

Tel.: 06331 537-0

Fax.: 06331 537-211

· **Informing department:**

Product safety department.

e-mail: sdb@keck-chemie.de

· **1.4 Emergency telephone number:**

Monday - Thursday: 9 a.m. - 4 p.m.,

Friday: 7 - 2 p.m.

Mr. Eric Zimmer Tel.: +49 6331 537 170

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



health hazard

STOT RE 2

H373 May cause damage to the spleen through prolonged or repeated exposure. Route of exposure: Oral.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Sens. 1

H317 May cause an allergic skin reaction.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms** GHS07, GHS08, GHS09

· **Signal word** Warning

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- **Hazard-determining components of labelling:**

bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate
ethyl[(methylphenylamino)methylene]amino]benzoate
diisodecyl phenyl phosphite
triisodecyl phosphite
methyl-(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate
isodecyl diphenyl phosphite

- **Hazard statements**

H317 May cause an allergic skin reaction.
H373 May cause damage to the spleen through prolonged or repeated exposure. Route of exposure: Oral.
H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P314 Get medical advice/attention if you feel unwell.
P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Information pertaining to particular dangers for man and environment**

Toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.
May cause damage to the spleen through prolonged or repeated exposure. Route of exposure: Oral.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.
For information on endocrine disrupting properties see section 11.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 05-2114130211-73 01-2119489379-17	titanium dioxide substance with a Community workplace exposure limit	25 – 50%
CAS: 57834-33-0 EINECS: 260-976-0	ethyl[(methylphenylamino)methylene]amino]benzoate ⚠ STOT RE 2, H373; ⚠ Aquatic Chronic 2, H411	≥ 10 – < 25%
CAS: 125643-61-0 ELINCS: 406-040-9 Index number: 607-530-00-7 Reg.nr.: 01-2119878226-29 01-0000015551-76	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate Aquatic Chronic 4, H413	≥ 10 – < 25%

- **Description:** Dispersion of pigment(s) in plasticizer

- **Dangerous components:**

CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 05-2114130211-73 01-2119489379-17	titanium dioxide substance with a Community workplace exposure limit	25 – 50%
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CAS: 57834-33-0 EINECS: 260-976-0	ethyl[[[(methylphenylamino)methylene]amino]benzoate ☠ STOT RE 2, H373; ☠ Aquatic Chronic 2, H411	≥ 10 – < 25%
CAS: 125643-61-0 ELINCS: 406-040-9 Index number: 607-530-00-7 Reg.nr.: 01-2119878226-29 01-0000015551-76	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate Aquatic Chronic 4, H413	≥ 10 – < 25%
CAS: 41556-26-7 EINECS: 255-437-1 Reg.nr.: 05-2114518065-56	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Skin Sens. 1, H317	2.5 – 10%
CAS: 25550-98-5 EINECS: 247-098-3 Reg.nr.: 01-2119962888-14	diisodecyl phenyl phosphite ☠ Skin Sens. 1, H317	2.5 – 10%
CAS: 25448-25-3 EINECS: 246-998-3 Reg.nr.: 01-2119964066-34	triisodecyl phosphite ☠ Skin Sens. 1, H317	≥ 1 – < 2.5%
CAS: 82919-37-7 EINECS: 280-060-4	methyl-(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate ☠ Repr. 2, H361f; ☠ Aquatic Acute 1, H400; ☠ Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥ 1 – < 2.5%
CAS: 26544-23-0 EINECS: 247-777-4 Reg.nr.: 01-2119968254-31	isodecyl diphenyl phosphite ☠ Skin Sens. 1, H317	≥ 1 – < 2.5%
CAS: 77-99-6 EINECS: 201-074-9 Reg.nr.: 01-2119486799-10	propylidynetrimehanol ☠ Repr. 2, H361fd	≤ 0.2%
CAS: 108-95-2 EINECS: 203-632-7 Index number: 604-001-00-2 Reg.nr.: 01-2119471329-32 01-2119882293-32	Phenol ☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ☠ Muta. 2, H341; STOT RE 2, H373; ☠ Skin Corr. 1B, H314 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 3 % Skin Irrit. 2; H315: 1 % ≤ C < 3 % Eye Irrit. 2; H319: 1 % ≤ C < 3 % substance with a Community workplace exposure limit	< 0.1%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information

Instantly remove any clothing soiled by the product.
Take off contaminated clothing and wash it before reuse.
Call a doctor immediately.

· After inhalation

In case of unconsciousness bring patient into stable side position for transport.
Supply fresh air; consult doctor in case of symptoms.
In case of persistent symptoms consult doctor.

· After skin contact

Instantly wash with water and rinse thoroughly.
Take off immediately all contaminated clothing and wash it before reuse.
Consult a doctor in the event of a skin reaction.
Take off contaminated clothing.
If skin irritation continues, consult a doctor.

· After eye contact

Rinse opened eye for several minutes under running water.
Call a doctor immediately.

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Remove contact lenses, if present and easy to do. Continue rinsing.

· **After swallowing**

If swallowed, rinse mouth with water (only if the person is conscious).

Call a doctor immediately.

A person vomiting while lying on their back should be turned onto their side.

Never give anything by mouth to an unconscious person.

· **Information for doctor** treat symptomatically

· **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents**

CO₂ extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

· **5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire

Nitrogen oxides (NO_x)

Products of incomplete combustion

Carbon monoxide and carbon dioxide

Phenol

Phosphorus oxides (e.g. P₂O₅)

Phosphorus compounds

Under certain fire conditions, traces of other toxic gases cannot be excluded.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

* SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

Wear protective clothing.

Bring persons out of danger.

Avoid contact with spilled material.

Avoid contact with the eyes and skin.

· **6.2 Environmental precautions:**

Prevent from spreading (e.g. by damming-in or oil barriers).

Do not allow to enter drainage system, surface or ground water.

Do not allow to enter the ground/soil.

Inform respective authorities in case product reaches water or sewage system.

If material reaches soil inform authorities responsible for such cases.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Contain larger amounts and pump up into suitable containers.

Stop leak if you can do so without risk.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Do not eat, drink or smoke while working.

Ensure good ventilation/exhaustion at the workplace.

The usual precautionary measures should be adhered to general rules for handling chemicals.

Store in cool, dry place in tightly closed containers.

Prevent formation of aerosols.

Use only in well ventilated areas.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Instantly remove any clothing soiled by the product.

Wash contaminated body parts thoroughly after handling.

· **Information about protection against explosions and fires:** No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· **Requirements to be met by storerooms and containers:**

Provide floor trough without outlet.

Prevent any penetration into the ground.

Store only in the original container.

Suitable material for containers and conduit: steel or stainless steel.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidising agents.

· **Further information about storage conditions:**

Keep container tightly sealed.

Protect from humidity and keep away from water.

Store container in a well ventilated position.

Store in a cool place.

· **Recommended storage temperature:** 5 - 30°C· **Storage class 10** (flammable liquids)· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Components with limit values that require monitoring at the workplace:**

13463-67-7 titanium dioxide

WEL (Great Britain)

Long-term value: 10* 4** mg/m³

*total inhalable **respirable

108-95-2 Phenol

WEL (Great Britain)

Short-term value: 16 mg/m³, 4 ppmLong-term value: 7.8 mg/m³, 2 ppm

Sk

IOELV (European Union)

Short-term value: 16 mg/m³, 4 ppmLong-term value: 8 mg/m³, 2 ppm

Skin

· DNELs

13463-67-7 titanium dioxide

Oral

long-term, systemic effects

700 mg/kg bw/day (consumer)

Inhalative

long-term, local effects

10 mg/m³ (consumer)10 mg/m³ (worker)

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57834-33-0 ethyl[[methylphenylamino)methylene]amino]benzoate

Oral	long-term, systemic effects	0.1 mg/kg bw/day (consumer)
Dermal	long-term, systemic effects	0.1 mg/kg bw/day (consumer)
		1 mg/kg bw/day (worker)
Inhalative	long-term, systemic effects	0.0001 mg/m ³ (consumer)
		0.6 mg/m ³ (worker)

77-99-6 propylidynetrimehanol

Oral	long-term, systemic effects	0.33 mg/kg bw/day (consumer)
Dermal	short-term, systemic effects	138.8 mg/kg bw/day (worker)
	long-term, systemic effects	0.33 mg/kg bw/day (consumer)
		0.67 mg/kg bw/day (worker)
Inhalative	short-term, systemic effects	3,037.3 mg/m ³ (worker)
	long-term, systemic effects	1.16 mg/m ³ (consumer)
		6.61 mg/m ³ (worker)

· **PNECs****13463-67-7 titanium dioxide**

PNEC (Predicted No Effect Concentration)	100 mg/kg (soil (dry matter))
	100 mg/kg (sewage treatment plant)
	1 mg/kg (marine water)
	1,667 mg/kg (oral, secondary poisoning)
	100 mg/kg (marine sediment (dry matter))
	1,000 mg/kg (fresh water sediment (dry matter))
	0.127 mg/kg (fresh water)
	0.61 mg/kg (intermittent release)

57834-33-0 ethyl[[methylphenylamino)methylene]amino]benzoate

PNEC (Predicted No Effect Concentration)	10 mg/l (sewage treatment plant)
	0.00014 mg/l (marine water)
	0.0014 mg/l (fresh water)
PNEC (Predicted No Effect Concentration)	0.000231 mg/kg (soil (dry matter))
	0.000526 mg/kg (marine sediment (dry matter))
	0.00526 mg/kg (fresh water sediment (dry matter))

77-99-6 propylidynetrimehanol

PNEC (Predicted No Effect Concentration)	100 mg/l (sewage treatment plant)
	1 mg/l (marine water)
	1 mg/l (fresh water)
PNEC (Predicted No Effect Concentration)	0.241 mg/kg (soil (dry matter))
	3.51 mg/kg (marine sediment (dry matter))
	3,505 mg/kg (fresh water sediment (dry matter))

· **Additional information:**

The lists that were valid during the compilation were used as basis.

Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/institute(s): for the United Kingdom: UK Health and Safety Executive (HSE)

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

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*Do not inhale gases / fumes / aerosols.**Do not eat, drink or smoke while working.**Avoid contact with the eyes and skin.***· Breathing equipment:***Filter A/P2.**In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.***· Hand protection***Protective gloves.**Only use chemical-protective gloves with CE-labelling of category III.**Check protective gloves prior to each use for their proper condition.**The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.**After use of gloves apply skin-cleaning agents and skin cosmetics.**Protective gloves should be replaced at first signs of wear.***· Material of gloves***Butyl rubber, BR**Nitrile rubber, NBR**Recommended thickness of the material: >0,5 mm**The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.***· Penetration time of glove material***The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.***· Not suitable are gloves made of the following materials:***Strong gloves**Leather gloves***· Eye/face protection** *Safety glasses***· Body protection:** *Protective work clothing.***· Environmental exposure controls***Do not allow to enter drainage system, surface or ground water.**Do not allow to enter the ground/soil.**Prevent from spreading (e.g. by damming-in or oil barriers).***SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information****· Physical state***Fluid***· Colour:***Light beige***· Odour:***Type specific***· Odour threshold:***Not determined.***· Melting point/freezing point:***Not determined.***· Boiling point or initial boiling point and boiling range***> 232 °C (25550-98-5 diisodecyl phenyl phosphite)***· Lower and upper explosion limit****· Lower:***Not determined.***· Upper:***Not determined.***· Minimum ignition energy:****· Flash point:***> 100 °C (57834-33-0 ethyl[[(methylphenylamino)methylene]amino]benzoate)***· Ignition temperature:***> 360 °C (9082-00-2 polyether polyol, branched)***· Decomposition temperature:***Not determined.***· pH***Not determined.***· Viscosity:****· Kinematic viscosity***Not determined.***· dynamic at 20 °C:***2,200 mPas*

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· Solubility	
· Water:	Not miscible or difficult to mix
· Partition coefficient n-octanol/water (log value)	See section 12
· Vapour pressure at 25 °C:	0 hPa
· (50°C):	
· Density and/or relative density	
· Density at 20 °C	1.498 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information	
· Appearance:	
· Form:	Viscous
· Important information on protection of health and environment, and on safety.	
· Explosive properties:	Product is not explosive.
· Organic solvents:	
· VOC (EU):	0.1 g/l
· VOC (%):	0.0 %
· Solids content:	100.0 %
· Change in condition	
· Evaporation rate	Not determined.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Protect from heat and direct sunlight.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid**
heat
Protect from humidity and keep away from water.
- **10.5 Incompatible materials:**
water
strong bases
strong acids
strong oxidizing agents

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10.6 Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****LD/LC50 values that are relevant for classification:***⁵vapour*⁷No mortality was observed.**13463-67-7 titanium dioxide**

Oral	LD ₅₀ Acute toxicity:	> 5,000 mg/kg (rat) (OECD 425)
Dermal	LD ₅₀ Acute toxicity, dermal:	> 5,000 mg/kg (canine)
Inhalative	LC ₅₀ Acute toxicity, inhalative:	0.01 mg/l (rat) (90 d)

57834-33-0 ethyl[(methylphenylamino)methylene]amino]benzoate

Oral	LD ₅₀ Acute toxicity:	2,000 mg/kg (rat) (OECD Guideline 423)
Dermal	LD ₅₀ Acute toxicity, dermal:	> 2,000 mg/kg (rat) (OECD Guideline 402)

41556-26-7 bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

Oral	LD ₅₀ Acute toxicity:	> 2,000 mg/kg (rat) (IUCLID)
Dermal	LD ₅₀ Acute toxicity, dermal:	> 2,000 mg/kg (rat)

25550-98-5 diisodecyl phenyl phosphite

Oral	LD ₅₀ Acute toxicity:	> 8,250 mg/kg (rat)
Dermal	LD ₅₀ Acute toxicity, dermal:	> 2,000 mg/kg (rabbit)

25448-25-3 triisodecyl phosphite

Oral	LD ₅₀ Acute toxicity:	> 5,000 mg/kg (rat)
Dermal	LD ₅₀ Acute toxicity, dermal:	> 5,000 mg/kg (rabbit)

82919-37-7 methyl-(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

Oral	LD ₅₀ Acute toxicity:	> 2,000 mg/kg (rat)
Dermal	LD ₅₀ Acute toxicity, dermal:	> 2,000 mg/kg (rat)

26544-23-0 isodecyl diphenyl phosphite

Oral	LD ₅₀ Acute toxicity:	3,840 mg/kg (rat)
Dermal	LD ₅₀ Acute toxicity, dermal:	> 5,000 mg/kg (rabbit)
Inhalative	LC ₅₀ Acute toxicity, inhalative:	> 8.4 mg/l (rat) (1 h)

77-99-6 propylidynetrimethanol

Oral	LD ₅₀ Acute toxicity:	14,100 mg/kg (rat)
Dermal	LD ₅₀ Acute toxicity, dermal:	> 10,000 mg/kg (canine)
Inhalative	LC ₅₀ Acute toxicity, inhalative:	> 0.85 mg/l (rat) * ⁷ * ⁹

108-95-2 Phenol

Oral	LD ₅₀ Acute toxicity:	300 mg/kg (mouse) 317 mg/kg (rat) (RTECS)
Dermal	LD ₅₀ Acute toxicity, dermal:	660 mg/kg (rat) (OECD Guideline 402)
Inhalative	LC ₅₀ (4 h) Acute toxicity, inhalative:	0.32 mg/l (rat) (RTECS)

Skin corrosion/irritation

Classification: No skin irritation

The product has not been tested. The statement has been derived from the properties of the individual components.

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Irritation of skin | Skin corrosion: neg. (OECD Guideline 404)

57834-33-0 ethyl[[(methylphenylamino)methylene]amino]benzoate

Irritation of skin | Skin corrosion: neg. (canine)

· **Serious eye damage/irritation**

Irritation may occur.

The product has not been tested. The statement has been derived from the properties of the individual components.

13463-67-7 titanium dioxide

Irritation of eyes | Serious eye damage/irritation: neg. (OECD Guideline 405)

57834-33-0 ethyl[[(methylphenylamino)methylene]amino]benzoate

Irritation of eyes | Serious eye damage/irritation: neg. (canine)

· **Respiratory or skin sensitisation**

Sensitization possible by skin contact.

The product has not been tested. The statement has been derived from the properties of the individual components.

13463-67-7 titanium dioxide

Sensitization | Skin sensitisation: neg. (OECD Guideline 406)

57834-33-0 ethyl[[(methylphenylamino)methylene]amino]benzoate

Sensitization | Skin sensitisation (maximizing test): neg. (guinea pig)

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.· **Carcinogenicity** Based on available data, the classification criteria are not met.· **Reproductive toxicity** Based on available data, the classification criteria are not met.· **STOT-single exposure****57834-33-0 ethyl[[(methylphenylamino)methylene]amino]benzoate**

NOAEL | 10 mg/kg (OECD 407)

· **STOT-repeated exposure****13463-67-7 titanium dioxide**Oral | NOAEL (oral) | 3,500 mg/kg bw/day (rat)
(90 d)Inhalative | NOAEL / NOAEC (inhalative) | 10 mg/m³ (rat)
(90 d)· **Additional toxicological information:**

The product has not been tested. The statement has been derived from the properties of the individual components.

· **Acute effects (acute toxicity, irritation and corrosivity)** No further relevant information available.· **Sensitisation** Sensitization possible by skin contact.· **Repeated dose toxicity**

May cause damage to organs.

May cause an allergic skin reaction.

· **Developmental toxicity (teratogenicity)** No data available.· **11.2 Information on other hazards**· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

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13463-67-7 titanium dioxide

<i>EC₀</i> -Bacterial toxicity	> 10,000 mg/l (<i>Pseudomonas fluorescens</i>) (24 h)
<i>LC₅₀</i> -Fish toxicity	> 10,000 mg/l (<i>sheepshead minnow</i> (<i>Cyprinodon variegatus</i>)) (OECD 203 (semi-static)) > 100 mg/l (<i>rainbow trout</i> (<i>Oncorhynchus mykiss</i>)) (OECD 203) (96 h) > 1,000 mg/l (<i>fathead minnow</i> (<i>Pimephales promelas</i>)) (EPA-540/9-85-006) (96 h)
<i>EC₅₀</i> -Toxicity for algae (static)	16 mg/l (<i>Pseudokirchneriella subcapitata</i>) (EPA-600-9/78-018; ASTM E1218-90, Vol 11.04) (72 h) > 10,000 mg/l (<i>marine diatom</i> (<i>Skeletonema costatum</i>)) (ISO 10253) (72 h)
<i>LC₀</i> -Toxicity for daphnia	> 3 mg/l (<i>daphnia</i> (<i>Daphnia magna</i>)) (30 d)
<i>LC₅₀</i> -Toxicity for daphnia	> 10,000 mg/l (<i>Acartia tonsa</i>) (ISO 14669 (1999); ISO 5667-16 (1998)) (48 h) > 100 mg/l (<i>daphnia</i> (<i>Daphnia magna</i>)) (OECD 202) (48 h)
Fish toxicity	> 1,000 mg/l (<i>ide</i> (<i>Leuciscus idus</i>)) (48 h)
NOEC (Sediment)	≥ 14,989 mg/kg (<i>Corophium volutator</i>) (OSPARCOM guidelines (1995), semi-static) (10 d) ≥ 100,000 mg/kg (<i>Hyaella azteca</i>) (ASTM 1706, semi-static) (28 d)

57834-33-0 ethyl[[(methylphenylamino)methylene]amino]benzoate

<i>EC₅₀</i> -Toxicity for daphnia	2.7 mg/l (<i>daphnia</i> (<i>Daphnia magna</i>)) (OECD Guideline 202) (48 h)
<i>LC₅₀</i> -Fish toxicity	1.4 mg/l (<i>zebrafish</i> (<i>Danio rerio</i>)) (OECD Guideline 203) (96 h)
<i>EC₅₀</i> -Toxicity for algae	29.9 mg/l (OECD Guideline 201)

41556-26-7 bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

<i>EC₅₀</i> -Toxicity for daphnia	20 mg/l (<i>daphnia</i> (<i>Daphnia magna</i>)) (OECD 202/1; IUCLID)
<i>IC₅₀</i> -Bacterial toxicity	> 100 mg/l (bacteria, not defined)
<i>LC₅₀</i> -Fish toxicity (static)	0.97 mg/l (<i>zebrafish</i> (<i>Danio rerio</i>)) (OECD 203; IUCLID) (96 h)

25550-98-5 diisodecyl phenyl phosphite

<i>EC₅₀</i> -Toxicity for daphnia	0.2 mg/l (<i>daphnia</i> (<i>Daphnia magna</i>)) (48 h)
<i>LC₅₀</i> -Fish toxicity	> 100 mg/l (<i>ide</i> (<i>Leuciscus idus</i>)) (48 h)
<i>EC₅₀</i> -Toxicity for algae	45 mg/l (<i>green algae</i> (<i>Desmodesmus subspicatus</i>)) (72 h)

25448-25-3 triisodecyl phosphite

<i>LC₅₀</i>	> 12.6 mg/l (<i>rat</i>) (1 h)
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82919-37-7 methyl-(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	
<i>EC</i> ₅₀ -Toxicity for daphnia	20 mg/l (daphnia (<i>Daphnia magna</i>))
<i>IC</i> ₅₀ -Bacterial toxicity	> 100 mg/l (not specified)
26544-23-0 isodecyl diphenyl phosphite	
<i>LC</i> ₅₀ -Fish toxicity	> 16 mg/l (ide (<i>Leuciscus idus</i>)) (48 h)
77-99-6 propylidyntrimethanol	
<i>EC</i> ₅₀ -Toxicity for daphnia	13,000 mg/l (daphnia (<i>Daphnia magna</i>)) (48 h)
<i>EC</i> ₅₀ -Bacterial toxicity	> 1,000 mg/l (activated sludge) (3 h)
<i>LC</i> ₅₀ -Fish toxicity	> 1,000 mg/l (common bleak (<i>Alburnus alburnus</i>)) (96 h)
<i>IC</i> ₅₀ -Toxicity for algae	> 1,000 mg/l (<i>Pseudokirchneriella subcapitata</i>) (72 h)
<i>ErC</i> ₅₀ -Toxicity for algae (growth inhibition)	> 1,000 mg/l (<i>Pseudokirchneriella subcapitata</i>) (72 h)
<i>NOEC</i> (aquatic)	> 1,000 mg/l (daphnia (<i>Daphnia magna</i>)) (21 d)
108-95-2 Phenol	
<i>EC</i> ₅₀ -Toxicity for daphnia	17 mg/l (daphnia (<i>Daphnia magna</i>)) (48 h) 18 – 36 mg/l (<i>Daphnia pulex</i>) (48 h)
<i>EC</i> ₅₀ -Bacterial toxicity(respiration inhibition)	23.28 mg/l (<i>Photobacter phosphoreum</i>) (< 1 h)
<i>LC</i> ₅₀ -Fish toxicity	27.8 mg/l (zebrafish (<i>Brachidanio rerio</i>)) (96 h) 44.5 mg/l (Goldfish (<i>Carassius auratus</i>)) (96 h) 5.4 – 9.8 mg/l (rainbow trout (<i>Oncorhynchus mykiss</i>)) (semistatic) (48 h) 24 – 36 mg/l (fathead minnow (<i>Pimephales promelas</i>)) (48 h) 10 mg/l (common roach (<i>Rutilus rutilus</i>)) (48 h) 5 – 12 mg/l (rainbow trout (<i>Salmo gairdneri</i>)) (96 h)
<i>EC</i> ₅₀ -Toxicity for algae	56 mg/l (brine shrimp (<i>Artemia salina</i>)) (24 h) > 287 mg/l (green algae (<i>Selenastrum capricornutum</i>)) (48 h)

· 12.2 Persistence and degradability

The product is partially biodegradable. Significant residuals remain.

77-99-6 propylidyntrimethanol	
<i>CO</i> ₂ -evolution-test	100 % (28 days) (OECD 301 B)
· Degree of elimination:	
77-99-6 propylidyntrimethanol	
Biodegradability	6 % (28 days) (Modified OECD Screening Test)

· Behaviour in environmental systems: Not miscible or difficult to mix

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· Components:**· Henry's Law constant:**

166412-78-8	1,2-cyclohexanedicarboxylic acid, diisononyl ester	(25°C) 7,15 Pa*m ³ /mol
77-99-6	propylidynetrimethanol	0,002 Pa*m ³ /mol

- **Toxicity to soil dwelling organisms:** Toxic effects have been observed in studies with soil living organisms.
- **12.3 Bioaccumulative potential** No further relevant information available.

· Partition coefficient, n-octanol/water (log Pow):

108-95-2 Phenol		
log Pow	1.47 ()	

· Bioconcentration factor (BCF):

77-99-6 propylidynetrimethanol		
Bioconcentration factor (BCF):	< 17	

- **12.4 Mobility in soil** No further relevant information available.

· 12.40.23.1 Partition coefficient, soil organic carbon/water (log Koc):

125643-61-0	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	3,88 - 4,27
166412-78-8	1,2-cyclohexanedicarboxylic acid, diisononyl ester	6,59 (OECD 121)
77-99-6	propylidynetrimethanol	0,176

- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**

· Remark:

Toxic for fish
Toxic for water fleas

108-95-2 Phenol		
theoretical oxygen demand (ThOD)	2.38 g O ₂ /g ()	

· Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):

57834-33-0 ethyl[[methylphenylamino)methylene]amino]benzoate		
EC ₅₀ Bacterial toxicity	1,000 mg/l	

- **Other information:** Do not discharge product into the environment without control.

· Additional ecological information:**· CSB-value:**

108-95-2 Phenol		
COD (Chemical Oxygen Demand)	2.28 g O ₂ /g ()	

· BSB5-value:

108-95-2 Phenol		
BOD (Biochemical Oxygen Demand)	1.68 g O ₂ /g ()	

- **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**

organophosphorus compounds

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Avoid transfer into the environment.

Do not allow product to reach ground water, water bodies or sewage system.

Harmful to aquatic organisms

The product should not be released into the aquatic environment without preliminary treatments (purification plant).

Danger to drinking water if even small quantities leak into soil.

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SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

None disposal into waste water.

· **Waste disposal key number:**

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

· **Uncleaned packagings:**

· **Recommendation:**

Disposal must be made according to official regulations.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN3082

· **14.2 UN proper shipping name**

· **ADR**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ethyl[[[(methylphenylamino)methylene]amino]benzoate, pentamethyl-piperidinyl-esters of sebacic acid)

· **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ethyl[[[(methylphenylamino)methylene]amino]benzoate, pentamethyl-piperidinyl-esters of sebacic acid), MARINE POLLUTANT

· **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ethyl[[[(methylphenylamino)methylene]amino]benzoate, pentamethyl-piperidinyl-esters of sebacic acid)

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

9 (M6) Miscellaneous dangerous substances and articles.

· **Label**

9

· **IMDG, IATA**



· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**

· **Marine pollutant:**

Yes (P)

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

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· Special marking (IATA):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
· Kemler Number:	90
· EMS Number:	F-A,S-F
· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ETHYL[(METHYLPHENYLAMINO)METHYLENE]AMINO]BENZOATE, PENTAMETHYL-PIPERIDINYLESTERS OF SEBACIC ACID), 9, III

SECTION 15: Regulatory information

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

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms** GHS07, GHS08, GHS09

· **Signal word** Warning

· **Hazard-determining components of labelling:**

bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate
ethyl[(methylphenylamino)methylene]amino]benzoate
diisodecyl phenyl phosphite
triisodecyl phosphite
methyl-(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate
isodecyl diphenyl phosphite

· **Hazard statements**

H317 May cause an allergic skin reaction.

H373 May cause damage to the spleen through prolonged or repeated exposure. Route of exposure: Oral.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category** E2 Hazardous to the Aquatic Environment

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- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

- **National regulations**

- **Technical instructions (air):**

Class	Share in %
-	≤ 0.2
II	10 – 25
III	2.5 – 10

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
TRGS 401 "Risks resulting from skin contact - identification, assessment, measures"
TRGS 500: "precautions: minimum standards"
TRGS 600 "Substitution"
TRGS 510 "Storage of hazardous substances in non-stationary containers "
Directive 2012/18/EU
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H341 Suspected of causing genetic defects.
H361f Suspected of damaging fertility.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

- **Department issuing data specification sheet:** Laboratory

- **Contact:**

Monday - Thursday: 8 a.m. - 3 p.m.,
Friday: 8 a.m. - 1 p.m.
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- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
P: Marine Pollutant
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
ISO: International Organisation for Standardisation
DNEL: Derived No-Effect Level (UK REACH)
bw: bodyweight
Langz., Langzeit: chronic exposure,
akut: acute (exposure)
lokal: local effects
system., systemisch: systemic effects
PNEC (Predicted No-Effect Concentration)

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LC₅₀: lethal concentration for 50 percent of the animals or plants used for testing
LD₅₀: lethal dose for 50 percent of the animals used for testing
LD₀: lethal concentration for 0 percent
LD₀: lethal dose for 0 percent
nb / n.b. : not determined
theoret. O₂-Bedarf: theoretical oxygen demand
biolog. O₂-Bedarf: biological oxygen demand
chem. O₂-Bedarf: chemical oxygen demand
TRGS: technische Regeln für Gefahrstoffe (technical rules for dealing with dangerous substances)
Merkblatt BG-Chemie: datasheet of the "Berufsgenossenschaft Rohstoffe und chemische Industrie" (former: "Berufsgenossenschaft Chemie") (German insurance in case of accidents at work)
Langz., Langzeit: Long-term exposure
akut: Acute / short-term exposure
systemisch: systemic
lokal: local
n.a.: not applicable
(derived fr. data f. similar substances, intern. rep.) = derived from data from tests with similar substances, internal reports, not published
Vert.koeff.Bod./Wass = Partition Coefficient soil / water
n.v.: no data available
Susp.: suspension
H: the product is skin-resorbing
Algentoxizität: toxicity for algae
Bakterientoxizität: toxicity for bacteria
Daphnientoxizität: toxicity for Daphnia
Fischttoxizität: toxicity for fishes
biologische Abbaubarkeit: Biodegradation
DOC: dissolved organic carbon
Halbwertszeit: half-life
h: hour(s)
d: day(s)
w: week(s)
m: month(s)
y: year(s)
DIN: Norm des Deutschen Instituts für Normung = standard of the German Institute for Standardization
EN: Europäische Norm = standard of the European Committee for Standardization (CEN)
OECD: OECD Test Guideline
pos. : positive
neg. : negative
inh., inhal. : inhalative
NOEC (No Observed Effect Concentration),
NOEL (No Observed Effect Level),
NOAEL (No Observed Adverse Effect Level): denotes the level of exposure of an organism at which there is no effect in the exposed population.
NOELR (No-Observed-Effect-Loading Rate)
ATE (Acute Toxicity Estimates)
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
Sources <http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp>
 * **Data compared to the previous version altered.**