

Safety Data Sheet according to (EC) No 1907/2006 as amended

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SDS No.: 633048 V007.0

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TEROSON MS 939 WH

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

1.1. Product identifier

TEROSON MS 939 WH

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

Intended use: MS Adhesive

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Chronic hazards to the aquatic environment

Category 3

H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

Hazard statement:	H412 Harmful to aquatic life with long lasting effects.
Supplemental information	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Precautionary statement: P273 Avoid release to the environment.
Prevention

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2.3. Other hazards

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
Titanium dioxide < 1% particles with diameter ≤ 10 μm 13463-67-7 236-675-5 01-2119489379-17	5-< 10 %			
Bis(2,2,6,6-tetramethyl-4- piperidyl) sebacate 52829-07-9 258-207-9 01-2119537297-32	0,1-< 1 %	Repr. 2, H361f Eye Dam. 1, H318 Aquatic Chronic 2, H411 Aquatic Acute 1, H400	M acute = 1	
methanol 67-56-1 200-659-6 01-2119433307-44	0,1-< 1 %	Flam. Liq. 2, H225 Acute Tox. 3, Inhalation, H331 Acute Tox. 3, Dermal, H311 Acute Tox. 3, Oral, H301 STOT SE 1, H370	STOT SE 1; H370; C >= 10 % STOT SE 2; H371; C 3 - < 10 % ===== oral:ATE = 300 mg/kg	EU OEL
ethylenebis(oxyethylene) bis[3- (5-tert-butyl-4-hydroxy-m- tolyl)propionate] 36443-68-2 253-039-2 01-2119956160-44	0,01-< 0,25 %	Aquatic Chronic 1, H410	M chronic = 10	

If no ATE values are displayed, please refer to LD/LC50 values in Section 11. For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

No data available.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

Inform authorities in the event of product spillage to water courses or sewage systems.

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

Remove mechanically.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Temperatures between + 10 °C and + 25 °C.

7.3. Specific end use(s)

MS Adhesive

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Germany

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Calcium carbonate 471-34-1		1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Calcium carbonate 471-34-1		10	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Calcium carbonate 471-34-1			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Titanium dioxide 13463-67-7		1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Titanium dioxide 13463-67-7		10	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Titanium dioxide 13463-67-7			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
methanol 67-56-1 [Methanol]	200	260	Time Weighted Average (TWA):	Indicative	ECTLV
methanol 67-56-1			Skin designation:	Can be absorbed through the skin.	TRGS 900
methanol 67-56-1	100	130	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
methanol 67-56-1			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
methanol 67-56-1 [Methanol]			Skin designation:	Can be absorbed through the skin.	ECTLV

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Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value			Remarks	
	Compartment	periou	mg/l	ppm	mg/kg	others	
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	aqua (freshwater)		0,004 mg/l				
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	aqua (marine water)		0,00038 mg/l				
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (2829-07-9	Freshwater - intermittent		0,007 mg/l				
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	sediment (freshwater)				5,9 mg/kg		
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 62829-07-9	sediment (marine water)				0,59 mg/kg		
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	Soil				1,18 mg/kg		
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (2829-07-9	sewage treatment plant (STP)		1 mg/l				
nethanol 67-56-1	aqua (freshwater)						no hazard identified
nethanol 67-56-1	sediment (freshwater)						no hazard identified
nethanol 57-56-1	aqua (marine water)						no hazard identified
nethanol 67-56-1	Soil						no hazard identified
nethanol 57-56-1	sewage treatment plant (STP)						no hazard identified
nethanol 57-56-1	aqua (intermittent releases)						no hazard identified
nethanol 67-56-1	sediment (marine water)						no hazard identified
Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-hydroxy-m-tolyl)propionate] 6443-68-2	aqua (freshwater)		0,001 mg/l				
hylenebis(oxyethylene) bis[3-(5-tert-butyl-hydroxy-m-tolyl)propionate] 6443-68-2	sediment (freshwater)				0,195 mg/kg		
Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-hydroxy-m-tolyl)propionate]	sediment (marine water)				0,019 mg/kg		

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Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9		dermal	Long term exposure - systemic effects		1,8 mg/kg	
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 2829-07-9	Workers	Inhalation	Long term exposure - systemic effects		1,27 mg/m3	
is(2,2,6,6-tetramethyl-4-piperidyl) sebacate 2829-07-9	General population	Inhalation	Long term exposure - systemic effects		0,31 mg/m3	
is(2,2,6,6-tetramethyl-4-piperidyl) sebacate 2829-07-9	General population	dermal	Long term exposure - systemic effects		0,9 mg/kg	
is(2,2,6,6-tetramethyl-4-piperidyl) sebacate 2829-07-9	General population	oral	Long term exposure - systemic effects		0,18 mg/kg	
nethanol 7-56-1	Workers	inhalation	Long term exposure - systemic effects		260 mg/m3	no hazard identified
nethanol 7-56-1	Workers	inhalation	Acute/short term exposure - systemic effects		260 mg/m3	no hazard identified
nethanol 7-56-1	Workers	inhalation	Long term exposure - local effects		260 mg/m3	no hazard identified
nethanol 7-56-1	Workers	inhalation	Acute/short term exposure - local effects		260 mg/m3	no hazard identified
nethanol 7-56-1	Workers	dermal	Long term exposure - systemic effects		40 mg/kg	no hazard identified
nethanol 7-56-1	Workers	dermal	Acute/short term exposure - systemic effects		40 mg/kg	no hazard identified
nethanol 7-56-1	General population	inhalation	Long term exposure - systemic effects		50 mg/m3	no hazard identified
nethanol 7-56-1	General population	inhalation	Acute/short term exposure - systemic effects		50 mg/m3	no hazard identified
nethanol 7-56-1	General population	inhalation	Long term exposure - local effects		50 mg/m3	no hazard identified
nethanol 7-56-1	General population	inhalation	Acute/short term exposure - local effects		50 mg/m3	no hazard identified
nethanol 7-56-1	General population	dermal	Long term exposure - systemic effects		8 mg/kg	no hazard identified
nethanol 7-56-1	General population	dermal	Acute/short term exposure - systemic effects		8 mg/kg	no hazard identified
nethanol 7-56-1	General population	oral	Long term exposure - systemic effects		8 mg/kg	no hazard identified
nethanol 7-56-1	General population	oral	Acute/short term exposure - systemic effects		8 mg/kg	no hazard identified

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Biological Exposure Indices:

Ingredient [Regulated	Parameters	Biological	Sampling time			 Additional
substance]		specimen			exposure index	Information
methanol	methanol	Urine	Sampling time period is	15 mg/l	DE BGW	
67-56-1			for long-term exposures,			
[Methanol]			at the end of the shift			
			after several preceding			
			ones./ Sampling time			
			period is at end of			
			exposure or at end of			
			shift.			

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

The product should only be used at workplaces with intensive ventilation/extraction.

If intensive ventilation/extraction is not possible respiratory protection equipment with ABEK P2 filter (EN 14387) should be worn.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >= 1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >= 1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Protective goggles

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form paste
Colour white
Odor alcohol-like
Physical state solid

Melting point Not applicable, Determination technically not possible

Solidification temperature Not applicable, Product is a solid.

Initial boiling point > 270 °C (> 518 °F) Decomposes before boiling point is reached

Flammability
The product is not flammable.
Explosive limits
Not applicable, Product is a solid.
Flash point
Not applicable, Product is a solid.
Auto-ignition temperature
Not applicable, Product is a solid.

Decomposition temperature Not applicable, Substance/mixture is not self-reactive, no organic

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peroxide and does not decompose under foreseen conditions of use

Not applicable, Product reacts with water.

Not applicable, Product is a solid.

Reacts with water.

Not applicable Mixture < 0,1 hPa

1,47 g/cm3

1,47 g/cm3

Not applicable, Product is a solid. Not applicable, mixture is a paste.

Vapour pressure (20 °C (68 °F)) Density (20 °C (68 °F))

Bulk density

Viscosity (kinematic)

Solubility (qualitative)

(20 °C (68 °F); Solvent: Water) Partition coefficient: n-octanol/water

Relative vapour density: Particle characteristics

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

No decomposition if used according to specifications.

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SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

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

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type		_	
Titanium dioxide < 1% particles with diameter ≤ 10 μm 13463-67-7	LD50	> 5.000 mg/kg	rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	LD50	3.700 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
methanol 67-56-1	Acute toxicity estimate (ATE)	300 mg/kg		Expert judgement
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4- hydroxy-m- tolyl)propionate] 36443-68-2	LD50	> 7.000 mg/kg	rat	equivalent or similar to OECD Guideline 423 (Acute Oral toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Titanium dioxide < 1%	LD50	>= 10.000	hamster	not specified
particles with diameter ≤		mg/kg		
10 μm				
13463-67-7				
Bis(2,2,6,6-tetramethyl-4-	LD50	> 3.170 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
piperidyl) sebacate				
52829-07-9				
ethylenebis(oxyethylene)	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
bis[3-(5-tert-butyl-4-				
hydroxy-m-				
tolyl)propionate]				
36443-68-2				

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Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type			time		
Titanium dioxide < 1% particles with diameter ≤ 10 μm 13463-67-7	LC50	> 6,82 mg/l	dust	4 h	rat	not specified

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	not irritating	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	not irritating	24 h	rabbit	EPA OPP 81-5 (Acute Dermal Irritation)
methanol 67-56-1	not irritating	20 h	rabbit	BASF Test
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4- hydroxy-m- tolyl)propionate] 36443-68-2	not irritating	24 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	corrosive	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
methanol 67-56-1	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4- hydroxy-m- tolyl)propionate] 36443-68-2	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

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Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Titanium dioxide < 1% particles with diameter ≤ 10 μm 13463-67-7	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
methanol 67-56-1	not sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4- hydroxy-m- tolyl)propionate] 36443-68-2	not sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Titanium dioxide < 1% particles with diameter ≤ 10 μm 13463-67-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Titanium dioxide < 1% particles with diameter ≤ 10 μm 13463-67-7	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Titanium dioxide < 1% particles with diameter ≤ 10 μm 13463-67-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
methanol 67-56-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
methanol 67-56-1	negative	in vitro mammalian cell micronucleus test	without		not specified
methanol 67-56-1	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

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Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	not carcinogenic	inhalation	24 m 6 h/d; 5 d/w	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
methanol 67-56-1	not carcinogenic	inhalation: vapour	18 m 19 h/d	mouse	male/female	equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	NOAEL P > 1.000 mg/kg NOAEL F1 > 1.000 mg/kg		oral: gavage	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
Bis(2,2,6,6-tetramethyl-4- piperidyl) sebacate 52829-07-9	NOAEL P 109 mg/kg NOAEL F1 121 mg/kg	two- generation study	oral: feed	rat	OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)
methanol 67-56-1	NOAEL P 1,3 mg/l NOAEL F1 0,13 mg/l NOAEL F2 0,13 mg/l	Two generation study	inhalation	rat	equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Titanium dioxide < 1% particles with diameter ≤ 10 μm 13463-67-7	NOAEL 1.000 mg/kg	oral: gavage	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	NOAEL 36 mg/kg	oral: feed	daily	rat	other guideline:
methanol 67-56-1	NOAEL 6,63 mg/l	inhalation: vapour	4 weeks 6 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
methanol 67-56-1	NOAEL 0,13 mg/l	inhalation: vapour	12 m 20 h/d	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

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Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

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SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Titanium dioxide < 1%	LC50	Toxicity > Water	48 h	Danio rerio	other guideline:
particles with diameter ≤ 10		solubility			
μm					
13463-67-7	NOTE		0.1		0707 0 11 11 212 (711
Titanium dioxide < 1%	NOEC	Toxicity > Water	8 d	Danio rerio	OECD Guideline 212 (Fish,
particles with diameter ≤ 10		solubility			Short-term Toxicity Test on
μm					Embryo and Sac-Fry
13463-67-7	7.050	1 4 7	0.51		Stages)
Bis(2,2,6,6-tetramethyl-4-	LC50	4,4 mg/l	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish,
piperidyl) sebacate					Acute Toxicity Test)
52829-07-9	T C50	15 400 /1	0.6.1	r · 1·	EDA 660 04 d. 1. f.
methanol 67-56-1	LC50	15.400 mg/l	96 h	Lepomis macrochirus	EPA-660 (Methods for
07-30-1					Acute Toxicity Tests with Fish, Macroinvertebrates
					and Amphibians)
methanol	NOEC	7.900 mg/l	200 h	Oryzias latipes	OECD Guideline 210 (fish
67-56-1	NOLC	7.900 mg/1	200 11	Oryzias laupes	early lite stage toxicity test)
ethylenebis(oxyethylene)	LC50	Toxicity > Water	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish,
bis[3-(5-tert-butyl-4-hydroxy-	LC30	solubility	90 11	Lepoinis macrocinius	Acute Toxicity Test)
m-tolyl)propionate]		Solubility			Acute Toxicity Test)
36443-68-2					
ethylenebis(oxyethylene)	NOEC	0,0088 mg/l	32 d	Pimephales promelas	OECD Guideline 210 (fish
bis[3-(5-tert-butyl-4-hydroxy-	TOLC	0,0000 mg/1	32 d	i intepnates prometas	early lite stage toxicity test)
m-tolyl)propionate]					carry nee stage toxicity test)
36443-68-2					
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Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	EC50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	EC50	8,58 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
methanol 67-56-1	EC50	18.260 mg/l	96 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy- m-tolyl)propionate] 36443-68-2	EC50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

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Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Bis(2,2,6,6-tetramethyl-4- piperidyl) sebacate 52829-07-9	NOEC	0,23 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy- m-tolyl)propionate] 36443-68-2	NOEC	0,0055 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	EC50	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Titanium dioxide < 1% particles with diameter ≤ 10 μm 13463-67-7	NOEC	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Bis(2,2,6,6-tetramethyl-4- piperidyl) sebacate 52829-07-9	EC50	0,705 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Bis(2,2,6,6-tetramethyl-4- piperidyl) sebacate 52829-07-9	EC10	0,188 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
methanol 67-56-1	EC50	22.000 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy- m-tolyl)propionate] 36443-68-2	EC50	Toxicity > Water solubility	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	EU Method C.3 (Algal Inhibition test)
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy- m-tolyl)propionate] 36443-68-2	EC10	Toxicity > Water solubility	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	EU Method C.3 (Algal Inhibition test)

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Titanium dioxide < 1%	EC50	Toxicity > Water	3 h	activated sludge	ISO 8192 (Test for
particles with diameter ≤ 10		solubility			Inhibition of Oxygen
μm					Consumption by Activated
13463-67-7					Sludge)
Bis(2,2,6,6-tetramethyl-4-	EC50	> 100 mg/l	3 h	activated sludge, domestic	OECD Guideline 209
piperidyl) sebacate					(Activated Sludge,
52829-07-9					Respiration Inhibition Test)
methanol	IC50	> 1.000 mg/l	3 h	activated sludge of a	OECD Guideline 209
67-56-1				predominantly domestic sewage	(Activated Sludge,
					Respiration Inhibition Test)
ethylenebis(oxyethylene)	IC50	Toxicity > Water	3 h	activated sludge, domestic	OECD Guideline 209
bis[3-(5-tert-butyl-4-hydroxy-		solubility			(Activated Sludge,
m-tolyl)propionate]					Respiration Inhibition Test)
36443-68-2					

12.2. Persistence and degradability

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The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	not readily biodegradable.	aerobic	24 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
methanol 67-56-1	readily biodegradable	aerobic	82 - 92 %	30 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy- m-tolyl)propionate] 36443-68-2	not readily biodegradable.	aerobic	8 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
methanol 67-56-1	< 10	72 h		Leuciscus idus melanotus	not specified
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy- m-tolyl)propionate] 36443-68-2	> 0,11 - 2,45	56 d		Cyprinus carpio	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	LogPow	Temperature	Method
CAS-No.			
Bis(2,2,6,6-tetramethyl-4- piperidyl) sebacate 52829-07-9	0,35	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
methanol 67-56-1	-0,77		other guideline:
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy- m-tolyl)propionate] 36443-68-2	4,7	23 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	PBT / vPvB
CAS-No.	
Titanium dioxide < 1% particles with diameter	According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall
≤ 10 μm	not be conducted for inorganic substances.
13463-67-7	
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
52829-07-9	Bioaccumulative (vPvB) criteria.
methanol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
67-56-1	Bioaccumulative (vPvB) criteria.
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
hydroxy-m-tolyl)propionate]	Bioaccumulative (vPvB) criteria.
36443-68-2	

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

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SECTION 14: Transport information

14.1. UN number or ID number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):
Persistent organic pollutants (Regulation (EU) 2019/1021):
VOC content 0,6 %

Not applicable Not applicable Not applicable

(2010/75/EU)

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

National regulations/information (Germany):

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WGK: WGK 2: significantly water endangering (Ordinance on facilities for handling substances that are hazardous to water (AwSV))
Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510:

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H361f Suspected of damaging fertility.

H370 Causes damage to organs.

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.

ED: Substance identified as having endocrine disrupting properties

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EU OEL: Substance with a Union workplace exposure limit
EU EXPLD 1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2 Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC: Substance of very high concern

PBT: Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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