

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

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## TEROSON MS 9320 GY

SDS No. : 634013 V009.0 Revision: 13.02.2024 printing date: 26.02.2024 Replaces version from: 10.08.2022

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

- **1.1. Product identifier** TEROSON MS 9320 GY
- **1.2. Relevant identified uses of the substance or mixture and uses advised against** Intended use: MS Sealant
- **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):

Skin sensitizer H317 May cause an allergic skin reaction.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine

Reaction mass of pentamethyl-4-piperidylsebacates

Signal word:

Warning

Category 1

Hazard statement:	H317 May cause an allergic skin reaction.
Supplemental information	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
Precautionary statement: Prevention	P280 Wear protective gloves.

#### 2.3. Other hazards

# Following substances are present in a concentration $\geq$ 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
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene  01-2119471843-32	5- < 10 %	Flam. Liq. 3, H226 Asp. Tox. 1, Oral, H304 STOT SE 3, H336 Aquatic Chronic 3, H412		
Titanium dioxide < 1% particles with diameter ≤ 10 μm 13463-67-7 236-675-5 01-2119489379-17	1-< 3 %			
N-[3- (dimethoxymethylsilyl)propyl]et hylenediamine 3069-29-2 221-336-6 01-2119963926-21	0,1-< 1 %	Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 4, Oral, H302 Skin Irrit. 2, H315	oral:ATE = 500 mg/kg inhalation:ATE = 5,21 mg/l;dust/mist	
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5 915-687-0 01-2119491304-40	0,01-< 0,1 %	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Sens. 1A, H317 Repr. 2, H361f	M acute = 1 M chronic = 1 ===== dermal:ATE = 3.171 mg/kg	
ethylenebis(oxyethylene) bis[3- (5-tert-butyl-4-hydroxy-m- tolyl)propionate] 36443-68-2 253-039-2 01-2119956160-44	0,01-< 0,016 %	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: IF ON SKIN: Wash with plenty of soap and water. In case of adverse health effects seek medical advice.

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.

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

SKIN: Rash, Urticaria.

# 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. Avoid contact with skin and eyes. Keep unprotected persons away.

### **6.2.** Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

Remove mechanically. Dispose of contaminated material as waste according to Section 13.

### 6.4. Reference to other sections

See advice in section 8

# **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

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### 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 Sealant

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### **Occupational Exposure Limits**

Valid for

Germany

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Limestone 1317-65-3		10	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Limestone 1317-65-3		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
Limestone 1317-65-3			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
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):	2 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):	2 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

# **Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
N-[3-	aqua		0,062 mg/l				
(Dimethoxymethylsilyl)propyl]ethylenediam	(freshwater)						
ine							
3069-29-2							
N-[3-	aqua (marine		0,0062				
(Dimethoxymethylsilyl)propyl]ethylenediam	water)		mg/l				
ine 3069-29-2							
N-[3-	0.0110		0.62 ma/1	-			-
(Dimethoxymethylsilyl)propyl]ethylenediam	aqua (intermittent		0,62 mg/l				
ine	releases)						
3069-29-2	reneuses)						
N-[3-	sediment				0,024		
(Dimethoxymethylsilyl)propyl]ethylenediam	(freshwater)				mg/kg		
ine							
3069-29-2							
N-[3-	sediment				0,0024		
(Dimethoxymethylsilyl)propyl]ethylenediam	(marine water)				mg/kg		
ine							
3069-29-2	0.11				0.01 /		
N-[3- (Dimethoxymethylsilyl)propyl]ethylenediam	Soil				0,01 mg/kg		
ine							
3069-29-2							
N-[3-	sewage		25 mg/l				
(Dimethoxymethylsilyl)propyl]ethylenediam			25 mg/1				
ine	(STP)						
3069-29-2							
Reaction mass of pentamethyl-4-	aqua		0,002 mg/l				
piperidylsebacates	(freshwater)						
1065336-91-5							
Reaction mass of pentamethyl-4-	aqua (marine		0,00022				
piperidylsebacates 1065336-91-5	water)		mg/l				
Reaction mass of pentamethyl-4-	Freshwater -		0.000 mg/l				
piperidylsebacates	intermittent		0,009 mg/l				
1065336-91-5	mermitent						
Reaction mass of pentamethyl-4-	sewage		1 mg/l				
piperidylsebacates	treatment plant		8/-				
1065336-91-5	(STP)						
Reaction mass of pentamethyl-4-	sediment				1,05 mg/kg		
piperidylsebacates	(freshwater)						
1065336-91-5							
Reaction mass of pentamethyl-4-	sediment				0,11 mg/kg		
piperidylsebacates	(marine water)						
1065336-91-5 Reaction mass of pentamethyl-4-	Soil				0,21 mg/kg		
piperidylsebacates	5011				0,21 mg/kg		
1065336-91-5							
Reaction mass of pentamethyl-4-	Predator						no potential for
piperidylsebacates							bioaccumulation
1065336-91-5							
Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-	aqua		0,001 mg/l				
4-hydroxy-m-tolyl)propionate]	(freshwater)						
36443-68-2							
Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-					0,195		
4-hydroxy-m-tolyl)propionate]	(freshwater)				mg/kg		
	codimont				0.010		
	(marine water)				mg/kg		
4-hydroxy-m-tolyl)propionate] 36443-68-2 Ethylenebis(oxyethylene) bis[3-(5-tert-butyl- 4-hydroxy-m-tolyl)propionate] 36443-68-2	· · · · ·				0,019 mg/kg		

# **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	Workers	dermal	Long term exposure - systemic effects		77 mg/kg	
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	Workers	Inhalation	Long term exposure - systemic effects		871 mg/m3	
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	General population	dermal	Long term exposure - systemic effects		46 mg/kg	
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	General population	Inhalation	Long term exposure - systemic effects		185 mg/m3	
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	General population	oral	Long term exposure - systemic effects		46 mg/kg	
N-[3- (Dimethoxymethylsilyl)propyl]ethylenediam ine 3069-29-2	Workers	inhalation	Long term exposure - systemic effects		12 mg/m3	
N-[3- (Dimethoxymethylsilyl)propyl]ethylenediam ine 3069-29-2	Workers	dermal	Long term exposure - systemic effects		1,7 mg/kg	
N-[3- (Dimethoxymethylsilyl)propyl]ethylenediam ine 3069-29-2	General population	oral	Long term exposure - systemic effects		0,83 mg/kg	
N-[3- (Dimethoxymethylsilyl)propyl]ethylenediam ine 3069-29-2	General population	inhalation	Long term exposure - systemic effects		2,9 mg/m3	
N-[3- (Dimethoxymethylsilyl)propyl]ethylenediam ine 3069-29-2	General population	dermal	Long term exposure - systemic effects		0,83 mg/kg	
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	Workers	inhalation	Long term exposure - systemic effects		1,27 mg/m3	no potential for bioaccumulation
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	Workers	dermal	Long term exposure - systemic effects		1,8 mg/kg	no potential for bioaccumulation
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	General population	dermal	Long term exposure - systemic effects		0,9 mg/kg	no potential for bioaccumulation
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	General population	inhalation	Long term exposure - systemic effects		0,31 mg/m3	no potential for bioaccumulation
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	General population	oral	Long term exposure - systemic effects		0,18 mg/kg	no potential for bioaccumulation
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	Workers	dermal	Long term exposure - local effects			no potential for bioaccumulation
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	Workers	dermal	Acute/short term exposure - local effects			no potential for bioaccumulation

# **Biological Exposure Indices:**

None

# 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):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 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: Goggles which can be tightly sealed. 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

. mormanor	i on basic physical and chemical proper	
Delivery f	form	paste
Colour		grey
Odor		alcohol-like
Physical s	tate	solid
Melting p	oint	Not applicable, Determination technically not possible
Solidificat	tion temperature	Not applicable, Product is a solid.
Initial boi	ling point	> 300 °C (> 572 °F)
Flammab	ility	The product is not flammable.
Explosive		Not applicable, Product is a solid.
Flash poir	ıt	Not applicable, Product is a solid.
Auto-igni	tion temperature	Not applicable, Product is a solid.
Decompos	sition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pН		Not applicable, Product reacts with water.
Viscosity	(kinematic)	Not applicable, Product is a solid.
2	(qualitative)	Reacts with water.
	<sup>3</sup> °F); Solvent: Water)	
	oefficient: n-octanol/water	Not applicable
		Mixture
Vapour pr	essure	< 0,1 hPa
(20°C (68		
Density		1.53 g/cm3 no method / method unknown
(20 °C (68	8 °F))	
Bulk dens		1,53 g/cm3
Relative v	vapour density:	Not applicable, Product is a solid.
Particle c	haracteristics	Not applicable, mixture is a paste.

### 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.

# **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		-	
Naphtha (petroleum),	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
hydrotreated light, < 0.1				
% benzene				
Titanium dioxide < 1%	LD50	> 5.000 mg/kg	rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down
particles with diameter $\leq$				Procedure)
10 µm				
13463-67-7				
N-[3-	LD50	301 - 2.000	rat	OECD Guideline 401 (Acute Oral Toxicity)
(dimethoxymethylsilyl)pr		mg/kg		
opyl]ethylenediamine				
3069-29-2				
N-[3-	Acute	500 mg/kg		Expert judgement
(dimethoxymethylsilyl)pr	toxicity			
opyl]ethylenediamine	estimate			
3069-29-2	(ATE)			
Reaction mass of	LD50	3.230 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
pentamethyl-4-				
piperidylsebacates				
1065336-91-5				
ethylenebis(oxyethylene)	LD50	> 7.000 mg/kg	rat	equivalent or similar to OECD Guideline 423 (Acute Oral
bis[3-(5-tert-butyl-4-				toxicity)
hydroxy-m-				
tolyl)propionate]				
36443-68-2				

# Acute dermal toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	LD50	> 5.000 mg/kg	rabbit	not specified
Titanium dioxide < 1% particles with diameter $\leq$ 10 µm 13463-67-7	LD50	>= 10.000 mg/kg	hamster	not specified
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	LD50	15.520 mg/kg	rabbit	not specified
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	LD50	> 3.170 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	Acute toxicity estimate (ATE)	3.171 mg/kg		Expert judgement
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4- hydroxy-m- tolyl)propionate] 36443-68-2	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)

# Acute inhalative toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	LC50	> 5,6 mg/l	dust/mist	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Titanium dioxide < 1% particles with diameter ≤ 10 µm 13463-67-7	LC50	> 6,82 mg/l	dust	4 h	rat	not specified
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	LC50	> 5,2 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	Acute toxicity estimate (ATE)	5,21 mg/l	dust/mist	4 h		Expert judgement

### 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 $\leq$ 10 $\mu$ m 13463-67-7	not irritating	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
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 $\leq$ 10 µm 13463-67-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	highly 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)

# 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 $\le 10 \mu m$ 13463-67-7	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	Sub-Category 1A (sensitising)	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	sensitising	Guinea pig maximisation test	guinea pig	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 $\le 10 \ \mu m$ 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 $\leq$ 10 $\mu$ m 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 $\le 10 \ \mu m$ 13463-67-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

# 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 $\leq$ 10 $\mu$ m 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)

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)
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	NOAEL P < 221 mg/kg NOAEL F1 221 mg/kg		oral: feed	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

### **STOT-single exposure:**

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

Hazardous substances CAS-No.	Assessment	Route of exposure	Target Organs	Remarks
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	Category 3 with narcotic effects.			

# 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 $\le 10 \ \mu m$ 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)

### Aspiration hazard:

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	0,91 mm2/s	25 °C	not specified	

## 11.2 Information on other hazards

not applicable

# **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		-	-	
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	LL50	> 10 - < 30 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Titanium dioxide $< 1\%$ particles with diameter $\le 10$ $\mu$ m 13463-67-7	LC50	Toxicity > Water solubility	48 h	Danio rerio	other guideline:
Titanium dioxide < 1% particles with diameter $\leq 10$ µm 13463-67-7	NOEC	Toxicity > Water solubility	8 d	Danio rerio	OECD Guideline 212 (Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages)
N-[3- (dimethoxymethylsilyl)propyl] ethylenediamine 3069-29-2	LC50	597 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	EU Method C.1 (Acute Toxicity for Fish)
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	LC50	0,9 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy- m-tolyl)propionate] 36443-68-2	LC50	Toxicity > Water solubility	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy- m-tolyl)propionate] 36443-68-2	NOEC	0,0088 mg/l	32 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)

### 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	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	EL50	> 22 - < 46 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Titanium dioxide $< 1\%$ particles with diameter $\le 10$ µm 13463-67-7	EC50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
N-[3- (dimethoxymethylsilyl)propyl] ethylenediamine 3069-29-2	EC50	> 100 mg/l	48 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.

a. a	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Reaction mass of pentamethyl- 4-piperidylsebacates 1065336-91-5	NOEC	1 mg/l	21 d		OECD 211 (Daphnia magna, Reproduction Test)
	NOEC	0,0055 mg/l	21 d		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
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	EL50	> 1.000 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	NOELR	< 1 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Titanium dioxide < 1% particles with diameter $\le 10$ 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 $\le 10$ $\mu$ m 13463-67-7	NOEC	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction mass of pentamethyl- 4-piperidylsebacates 1065336-91-5	NOEC	0,22 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction mass of pentamethyl- 4-piperidylsebacates 1065336-91-5	EC50	1,68 mg/l	72 h	Desmodesmus subspicatus	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 $< 1\%$ particles with diameter $\le 10$ $\mu$ m 13463-67-7	EC50	Toxicity > Water solubility	3 h	activated sludge	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
N-[3- (dimethoxymethylsilyl)propyl] ethylenediamine 3069-29-2	EC10	25 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
Reaction mass of pentamethyl- 4-piperidylsebacates 1065336-91-5	IC50	100 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy- m-tolyl)propionate] 36443-68-2	IC50	Toxicity > Water solubility	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

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
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	readily biodegradable	aerobic	89 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
N-[3- (dimethoxymethylsilyl)propyl] ethylenediamine 3069-29-2	not readily biodegradable.	aerobic	39 %	28 day	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
Reaction mass of pentamethyl- 4-piperidylsebacates 1065336-91-5	not readily biodegradable.	aerobic	38 %	28 d	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening 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	Bioconcentratio	Exposure time	Temperature	Species	Method
CAS-No.	n factor (BCF)				
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	< 31,4	56 d	24,5 °C	Cyprinus carpio	other guideline:
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 CAS-No.	LogPow	Temperature	Method
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	4 - 5,7		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
N-[3- (dimethoxymethylsilyl)propyl] ethylenediamine 3069-29-2	1	20 °C	QSAR (Quantitative Structure Activity Relationship)
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	> 2,37 - 2,77	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
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 CAS-No.	PBT / vPvB
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Titanium dioxide < 1% particles with diameter ≤ 10 μm 13463-67-7	According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances.
N-[3- (dimethoxymethylsilyl)propyl]ethylenediamine 3069-29-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Reaction mass of pentamethyl-4- piperidylsebacates 1065336-91-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4- hydroxy-m-tolyl)propionate] 36443-68-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

### **12.6. Endocrine disrupting properties**

not applicable

### 12.7. Other adverse effects

No data available.

# **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. 080409

	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 9,9 % (2010/75/EU) Not applicable Not applicable Not applicable

### **15.2.** Chemical safety assessment

A chemical safety assessment has been carried out.

### National regulations/information (Germany):

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: 11

### **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:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

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.

ED:	Substance identified as having endocrine disrupting properties		
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 (REACH Candidate List)		
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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