

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

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SDS No.: 316211

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243 24ml bottle Thrdlock CH A/P

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

1.1. Product identifier

243 24ml bottle Thrdlock CH A/P

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

Intended use:

Adhesive

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP24RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000 Fax-no.: +44 (1442) 278071

ua-productsafety.uk@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

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation.

Target organ: respiratory tract irritation

Chronic hazards to the aquatic environment Category 2

H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains Tetramethy lene dimethacry late

maleic acid

Acetic acid, 2-phenylhydrazide

Signal word: Warning

Hazard statement: H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement: "***For consumer use only: P101 If medical advice is needed, have product

container or label at hand. P102 Keep out of reach of children. P501 Dispose of

contents/container in accordance with national regulation.***

Precautionary statement: P261 Avoid breathing vapors.

Prevention P273 Avoid release to the environment.

P280 Wear protective gloves.

Precautionary statement: P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:

Anaerobic adhesive

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Tetramethylene dimethacrylate 2082-81-7	218-218-1 01-2119967415-30	25- 50 %	Skin Sens. 1B H317 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335
2,4,6-Triallyloxy-s-triazine 101-37-1	202-936-7 01-2119489756-17	5- < 10 %	Acute Tox. 4; Oral H302 Aquatic Chronic 2 H411
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy]methyl]-2- ethyl-1,3-propanediyl diacrylate 94108-97-1	302-434-9	1- < 5 %	Eye Irrit. 2 H319 Aquatic Chronic 2 H411
Fatty acid amide 126098-16-6	484-050-2 01-0000020228-74	0,25-< 2,5 %	Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M factor (Acute Aquat Tox): 10 M factor (Chron Aquat Tox): 10
Cumene hydroperoxide 80-15-9	201-254-7 01-2119475796-19	0,1-< 1 %	STOT RE 2 H373 Skin Corr. 1B H314 Acute Tox. 2; Inhalation H330 Aquatic Chronic 2 H411 Acute Tox. 4; Oral H302 Acute Tox. 4; Dermal H312 Org. Perox. E H242 STOT SE 3 H335
Acetic acid, 2-phenylhydrazide 114-83-0	204-055-3	0,1-< 1 %	Acute Tox. 3; Oral H301 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 STOT SE 3; Inhalation H335 Carc. 2 H351
maleic acid 110-16-7	203-742-5 01-2119488705-25	0,1-< 1 %	Acute Tox. 4; Oral H302 Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315 Skin Sens. 1 H317 Acute Tox. 4; Dermal H312
1,4-Naphthalenedione 130-15-4	204-977-6	0,01-< 0,1 %	Acute Tox. 3; Oral H301 Skin Corr. 1C H314 Skin Sens. 1 H317 Eye Dam. 1 H318 Acute Tox. 1; Inhalation H330 STOT SE 3

	H335
	Aquatic Acute 1
	H400
	Aquatic Chronic 1
	H410
	M factor (Acute Aquat Tox): 10

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

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.

EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

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:

water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

Keep away from sources of ignition.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Refer to Technical Data Sheet

7.3. Specific enduse(s)

Adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

In gre dient [Regulated substance]	ppm	mg/m ³	Value type	Shortterm exposure limit category/Remarks	Regulatory list
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		EH40 WEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS, INHALABLE DUST]		6	Time Weighted Average (TWA):		EH40 WEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [Dust, inhalable dust]		10	Time Weighted Average (TWA):		EH40 WEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [Dust, respirable dust]		4	Time Weighted Average (TWA):		EH40 WEL
Ethene, homopolymer 9002-88-4 [DUST, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Ethene, homopolymer 9002-88-4 [DUST, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL, PARTICULATES]		10	Time Weighted Average (TWA):		EH40 WEL
Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL, TOTAL VAPOUR AND PARTICULATES]	150	474	Time Weighted Average (TWA):		EH40 WEL

Occupational Exposure Limits

Valid for Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Shortterm exposure limit category/Remarks	Regulatorylist
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [DUSTSNON-SPECIFIC]		10	Time Weighted Average (TWA):		IR_OEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS]		2,4	Time Weighted Average (TWA):		IR_OEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS]		6	Time Weighted Average (TWA):		IR_OEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [DUSTSNON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL
Ethene, homopolymer 9002-88-4 [DUST S NON-SPECIFIC]		10	Time Weighted Average (TWA):		IR_OEL
Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL
Propane-1,2-diol		10	Time Weighted Average		IR_OEL

57-55-6			(TWA):	
[PROPANE-1,2-DIOL]				
Propane-1,2-diol	150	470	Time Weighted Average	IR_OEL
57-55-6			(TWA):	
[PROPANE-1,2-DIOL]				

$\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	En vi ronmental Compartment		Value				Remarks
		p = = = = =	mg/l	ppm	mg/kg	others	
Tetramethylene dimethacrylate 2082-81-7	aqua (freshwater)		0,043 mg/l				
Tetramethylene dimethacrylate 2082-81-7	aqua (marine water)		0,004 mg/l				
Tetramethylene dimethacrylate	aqua		0,098 mg/l				
2082-81-7	(intermittent releases)						
Tetramethylene dimethacrylate	sewage		2 mg/l				
2082-81-7	treatment plant (STP)						
Tetramethylene dimethacrylate 2082-81-7	sediment (freshwater)				3,12 mg/kg		
Tetramethylene dimethacrylate	sediment				0,312		
2082-81-7	(marine water)				mg/kg		
Tetramethylene dimethacrylate 2082-81-7	Soil				0,573 mg/kg		
2,4,6-Triallyloxy-1,3,5-triazine 101-37-1	aqua (freshwater)		0,007 mg/l				
2,4,6-Triallyloxy-1,3,5-triazine	aqua (marine		0,001 mg/l				
101-37-1	water)						
2,4,6-Triallylox y-1,3,5-triazine 101-37-1	freshwater - intermittent		0,07 mg/l				
2,4,6-Triallyloxy-1,3,5-triazine	sediment				0,173		
101-37-1 2,4,6-Triallyloxy-1,3,5-triazine	(freshwater) sediment		1		mg/kg 0,017		
101-37-1	(marine water)				mg/kg		
2,4,6-Triallylox y-1,3,5-triazine 101-37-1	Soil				0,057 mg/kg		
2,4,6-Triallyloxy-1,3,5-triazine	sewage		10 mg/l				
101-37-1	treatment plant (STP)						
2,4,6-Triallyloxy-1,3,5-triazine 101-37-1	oral				0,119		
2-[[2,2-Bis[[(1-	aqua		0,0012		mg/kg		
oxoallyl)oxy]methyl]butoxy]methyl]-2-	(freshwater)		mg/l				
ethyl-1,3-propanediyl diacrylate 94108-97-1							
2-[[2,2-Bis[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-	Soil				0,096		
ethyl-1,3-propanediyl diacrylate					mg/kg		
94108-97-1 2-[[2,2-Bis[](1-	sediment				0,048		
oxoallyl)oxy]methyl]butoxy]methyl]-2-	(marine water)				mg/kg		
ethyl-1,3-propanediyl diacrylate 94108-97-1							
2-[[2,2-Bis[[(1-	sediment				0,484		
oxoallyl)oxy]methyl]butoxy]methyl]-2- ethyl-1,3-propanediyl diacrylate	(freshwater)				mg/kg		
94108-97-1							
2-[[2,2-Bis[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-	sewage treatment plant		100 mg/l				
ethyl-1,3-propanediyl diacrylate	(STP)						
94108-97-1 2-[[2,2-Bis[[(1-	o.cmio		0,012 mg/l				
oxoallyl)oxy]methyl]butoxy]methyl]-2-	aqua (intermittent		0,012 mg/1				
ethyl-1,3-propanediyl diacrylate 94108-97-1	releases)						
2-[[2,2-Bis[[(1-	aqua (marine		0,00012				
oxoallyl)oxy]methyl]butoxy]methyl]-2- ethyl-1,3-propanediyl diacrylate	water)		mg/l				
94108-97-1							
Fatty acid amide 126098-16-6	aqua (freshwater)		0,000146 mg/l				
Fatty acid amide	aqua (marine		0,0146 g/l				
126098-16-6 Fatty acid amide	water) aqua		0,00025				
126098-16-6	(intermittent		mg/l				
Fatty acid amide	releases) sediment		1		5,554		
126098-16-6	(marine water)				mg/kg		

Fatty acid amide	aqua		55,54	
126098-16-6	(freshwater)		mg/kg	
Fatty acid amide	Soil		66,576	
126098-16-6			mg/kg	
Fatty acid amide	sewage	10 mg/l		
126098-16-6	treatment plant			
	(STP)			
.alpha.,.alphaDimethylbenzyl	aqua	0,0031		
hydroperoxide	(freshwater)	mg/l		
80-15-9	,	8		
.alpha.,.alphaDimethylbenzyl	aqua (marine	0.00031		
hydroperoxide	water)	mg/l		
80-15-9	water,	mg i		
.alpha.,.alphaDimethylbenzyl	aqua	0,031 mg/l		
hydroperoxide	(intermittent	0,001 mg1		
80-15-9	releases)			
.alpha.,.alphaDimethylbenzyl	Sewage	0,35 mg/l		
hydroperoxide	treatment plant	1,00 8		
80-15-9	F-1111			
.alpha.,.alphaDimethylbenzyl	sediment		0,023	
hydroperoxide	(freshwater)		mg/kg	
80-15-9	, ,			
.alpha.,.alphaDimethylbenzyl	sediment		0,0023	
hydroperoxide	(marine water)		mg/kg	
80-15-9	· · · · · ·			
.alpha.,.alphaDimethylbenzyl	Soil		0,0029	
hydroperoxide			mg/kg	
80-15-9				
Maleic acid	aqua	0,1 mg/l		
110-16-7	(freshwater)			
Maleic acid	aqua	0,4281		
110-16-7	(intermittent	mg/l		
	releases)	_		
Maleic acid	sediment		0,334	
110-16-7	(freshwater)		mg/kg	
Maleic acid	sewage	44,6 mg/l		
110-16-7	treatment plant	_		
	(STP)			
Maleic acid	aqua (marine	0,01 mg/l		
110-16-7	water)			
Maleic acid	sediment		0,0334	
110-16-7	(marine water)		mg/kg	
Maleic acid	Soil		0,0415	
110-16-7			mg/kg	

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Tetramethylene dimethacrylate 2082-81-7	Workers	dermal	Long term exposure - systemic effects		4,2 mg/kg	
Tetramethylene dimethacrylate 2082-81-7	Workers	inhalation	Long term exposure - systemic effects		14,5 mg/m3	
Tetramethylene dimethacrylate 2082-81-7	General population	inhalation	Long term exposure - systemic effects		4,3 mg/m3	
Tetramethylene dimethacrylate 2082-81-7	General population	dermal	Long term exposure - systemic effects		2,5 mg/kg	
Tetramethylene dimethacrylate 2082-81-7	General population	oral	Long term exposure - systemic effects		2,5 mg/kg	
2,4,6-Triallyloxy-1,3,5-triazine 101-37-1	Workers	inhalation	Acute/short term exposure - systemic effects		134,4 mg/m3	
2,4,6-Triallyloxy-1,3,5-triazine 101-37-1	Workers	dermal	Long term exposure - systemic effects		1,5 mg/kg	
2,4,6-Triallyloxy-1,3,5-triazine 101-37-1	Workers	inhalation	Long term exposure - systemic effects		2,12 mg/m3	
2-[[2,2-Bis[[(1- oxoallyl)oxy]methyl]butoxy]methyl]-2- ethyl-1,3-propanediyl diacrylate 94108-97-1	Workers	Inhalation	Long term exposure - systemic effects		5,88 mg/m3	
2-[[2,2-Bis[[(1- oxoallyl)oxy]methyl]butoxy]methyl]-2- ethyl-1,3-propanediyl diacrylate 94108-97-1	Workers	dermal	Long term exposure - systemic effects		1,67 mg/kg	
Fatty acid amide 126098-16-6	General population	oral	Long term exposure - systemic effects		8,3 mg/kg	
Fatty acid amide 126098-16-6	General population	dermal	Long term exposure - systemic effects		8,3 mg/kg	
Fatty acid amide 126098-16-6	Workers	dermal	Long term exposure - systemic effects		14 mg/kg	
Fatty acid amide 126098-16-6	General population	inhalation	Long term exposure - systemic effects		2,9 mg/m3	
Fatty acid amide 126098-16-6	Workers	inhalation	Long term exposure - systemic effects		9,8 mg/m3	
.alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9	Workers	inhalation	Long term exposure - systemic effects		6 mg/m3	
Maleic acid 110-16-7	Workers	dermal	Acute/short term exposure - local effects		0,55 mg/cm2	
Maleic acid 110-16-7	Workers	dermal	Long term exposure - local effects		0,04 mg/cm2	
Maleic acid 110-16-7	Workers	dermal	Acute/short term exposure - systemic effects		58 mg/kg	
Maleic acid 110-16-7	Workers	dermal	Long term exposure - systemic effects		3,3 mg/kg	
Maleic acid 110-16-7	Workers	inhalation	Acute/short term exposure - local effects		3 mg/m3	
Maleic acid 110-16-7	Workers	inhalation	Long term exposure - systemic effects		3 mg/m3	
Maleic acid 110-16-7	Workers	inhalation	Long term exposure - local effects		3 mg/m3	

Maleic acid	Workers	inhalation	Acute/short term	3 mg/m3	
110-16-7			exposure -		l
			systemic effects		l

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

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:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

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

Advices to personal protection equipment:

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

Appearance liquid blue
Odor characteristic

Odour threshold No data available / Not applicable

pH Not applicable, Mixture reacts with water.

Melting point No data available / Not applicable Solidification temperature No data available / Not applicable

 $\begin{array}{lll} \mbox{Initial boiling point} & > 70 \ ^{\circ}\mbox{C} \ (> 158 \ ^{\circ}\mbox{F}) \\ \mbox{Initial boiling point} & < 149 \ ^{\circ}\mbox{C} \ (< 300.2 \ ^{\circ}\mbox{F}) \\ \mbox{Flash point} & > 93 \ ^{\circ}\mbox{C} \ (> 199.4 \ ^{\circ}\mbox{F}) \\ \end{array}$

Evaporation rate No data available / Not applicable Flammability No data available / Not applicable Explosive limits No data available / Not applicable

Vapour pressure 1,7 mbar

(25 °C (77 °F)) Vapour pressure < 300 mbar

 $(50\ ^{\circ}\text{C}\ (122\ ^{\circ}\text{F}))$ Relative vapour density: No data available / Not applicable

Density 1,08 g/cm3

()
Bulk density
No data available / Not applicable
Solubility
No data available / Not applicable

Solubility (qualitative) Insoluble

(Solvent: Water)
Solubility (qualitative)
Soluble

(Solvent: Acetone)

Partition coefficient: n-octanol/water
Auto-ignition temperature
No data available / Not applicable
Viscosity
No data available / Not applicable
Viscosity (kinematic)
No data available / Not applicable
Explosive properties
No data available / Not applicable
Oxidising properties
No data available / Not applicable
No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong oxidants.

Acids.

Reducing agents.

Strong bases.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

carbon oxides.

Hydrocarbons

nitrogen oxides

Rapid polymerisation may generate excessive heat and pressure.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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			
Tetramethylene	LD50	10.066 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral
dimethacrylate				Toxicity)
2082-81-7				
2,4,6-Triallyloxy-s-	LD50	753 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
triazine				
101-37-1				
2-[[2,2-bis[[(1-	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
oxoallyl)oxy]methyl]buto				
xy]methyl]-2-ethyl-1,3-				
propanediyl diacrylate				
94108-97-1				
Fatty acid amide	LD50	> 2.000 mg/kg	rat	not specified
126098-16-6				
Cumene hydroperoxide	LD50	382 mg/kg	rat	other guideline:
80-15-9				
Acetic acid, 2-	LD50	270 mg/kg	rat	not specified
phenylhydrazide				
114-83-0				
maleic acid	LD50	708 mg/kg	rat	not specified
110-16-7				
1,4-Naphthalenedione	LD50	124 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral
130-15-4				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			
Tetramethylene	LD50	> 3.000 mg/kg	rabbit	not specified
dimethacrylate				
2082-81-7				
2,4,6-Triallyloxy-s-	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
triazine				
101-37-1				
2-[[2,2-bis[[(1-	LD50	> 2.000 mg/kg	rat	not specified
oxoallyl)oxy]methyl]buto				
xy]methyl]-2-ethyl-1,3-				
propanediyl diacrylate				
94108-97-1				
Fatty acid amide	LD50	> 2.000 mg/kg	rat	not specified
126098-16-6				
Cumene hydroperoxide	LD50	530 - 1.060	rat	other guideline:
80-15-9		mg/kg		
Cumene hydroperoxide	Acute	1.100 mg/kg		Expert judgement
80-15-9	toxicity			
	estimate			
	(ATE)			
maleic acid	LD50	1.560 mg/kg	rabbit	not specified
110-16-7				

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
Cumene hydroperoxide 80-15-9	LC50	1,370 mg/l	vapour	4 h	rat	not specified
1,4-Naphthalenedione 130-15-4	LC50	0,046 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

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
Cumene hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
maleic acid 110-16-7	irritating	24 h	human	Patch Test
1,4-Naphthalenedione 130-15-4	Category 1C (corrosive)		rabbit	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
2-[[2,2-bis[[(1- oxoally1)oxy]methy1]but o xy]methyl]-2-ethyl-1,3- propanediy1 diacrylate 94108-97-1	Category 2 (irritant)		rabbit	EU Method B.5 (Acute Toxicity: Eye Irritation/ Corrosion)
maleic acid 110-16-7	highly 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	Result	Test type	Species	Method
CAS-No.				
Tetramethylene dimethacrylate 2082-81-7	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
maleic acid 110-16-7	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
maleic acid 110-16-7	sensitising	Mouse local lymphnode assay (LLNA)	guinea pig	OECD Guideline 406 (Skin Sensitisation)
1,4-Naphthalenedione 130-15-4	sensitising	not specified	guinea pig	not specified

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
Tetramethylene	negative	in vitro mammalian	with and without		OECD Guideline 476 (In vitro
dimethacrylate		chromosome			Mammalian Cell Gene
2082-81-7		aberrationtest			Mutation Test)
Tetramethylene	negative	bacterial reverse	with and without		OECD Guideline 471
dimethacrylate		mutation assay (e.g			(Bacterial Reverse Mutation
2082-81-7		Ames test)			Assay)
Tetramethylene	positive	in vitro mammalian	with and without		OECD Guideline 473 (In vitro
dimethacrylate		chromosome			Mammalian Chromosome
2082-81-7		aberrationtest			Aberration Test)
Cumene hydroperoxide	positive	bacterial reverse	without		OECD Guideline 471
80-15-9		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
maleic acid	negative	bacterial reverse	no data		Ames Test
110-16-7		mutation assay (e.g			
		Ames test)			
maleic acid	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
110-16-7		gene mutation assay			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
maleic acid	not carcinogenic	oral: feed	2 y	rat	male/female	OECD Guideline 451
110-16-7			daily			(Carcinogenicity
						Studies)

Reproductive toxicity:

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

Hazardous substances	Result / Value	Test type	Route of	Species	Method
CAS-No.			application		
maleic acid 110-16-7	NOAEL F1 150 mg/kg	T wo generation	oral: gavage	rat	OECD Guideline 416 (Two- Generation Reproduction
	NOAEL F2 55 mg/kg	study			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	Result / Value	Route of	Exposure time /	Species	Method
CAS-No.		application	Frequency of		
			treatment		
Cumene hydroperoxide		inhalation:	6 h/d	rat	not specified
80-15-9		aerosol	5 d/w		
maleic acid	NOAEL >= 40 mg/kg	oral: feed	90 d	rat	OECD Guideline 408
110-16-7			daily		(Repeated Dose 90-Day
			-		Oral Toxicity in Rodents)

Aspiration hazard:

No data available.

SECTION 12: Ecological information

General ecological information:

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

12.1. Toxicity

Toxicity (Fish):

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Tetramethylene dimethacrylate 2082-81-7	LC50	32,5 mg/l	48 h		DIN 38412-15
2,4,6-Triallyloxy-s-triazine 101-37-1	LC50	4,36 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1	LC50	1,2 mg/l	96 h	Cyprinus carpio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Fatty acid amide 126098-16-6	LC50	Toxicity>Water solubility	96 h	Cyprinus carpio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene hydroperoxide 80-15-9	LC50	3,9 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
maleic acid 110-16-7	LC50	> 245 mg/l	48 h	Leuciscus idus	DIN 38412-15
1,4-Naphthalenedione 130-15-4	LC50	0,045 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (Daphnia):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
2,4,6-Triallyloxy-s-triazine 101-37-1	EC50	19,4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1	EC50	> 10 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Fatty acid amide 126098-16-6	EC50	Γoxicity>Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cumene hydroperoxide 80-15-9	EC50	18,84 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
maleic acid 110-16-7	EC50	42,81 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,4-Naphthalenedione 130-15-4	EC50	0,026 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity to aquatic invertebrates

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Tetramethylene	NOEC	5,09 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
dimethacrylate					magna, Reproduction Test)
2082-81-7					
Fatty acid amide	NOEC	Toxicity > Water	21 d	Daphnia magna	OECD 211 (Daphnia
126098-16-6		solubility			magna, Reproduction Test)
maleic acid	NOEC	10 mg/l	21 d	Daphnia magna	other guideline:
110-16-7					

Toxicity (Algae):

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type EC50				
Tetramethylene	EC50	9,79 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga,
dimethacrylate					Growth Inhibition Test)
2082-81-7					
Tetramethylene	NOEC	2,11 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga,
dimethacrylate					Growth Inhibition Test)
2082-81-7					
2-[[2,2-bis[[(1-	EC50	> 12 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
oxoallyl)oxy]methyl]butoxy]				_	Growth Inhibition Test)
methyl]-2-ethyl-1,3-					·
propanediyl diacrylate					
94108-97-1					
2-[[2,2-bis[[(1-	NOEC	< 0,35 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
oxoallyl)oxy]methyl]butoxy]				_	Growth Inhibition Test)
methyl]-2-ethyl-1,3-					
propanediyl diacrylate					
94108-97-1					
Fatty acid amide	EC50	0,025 mg/l	72 h	not specified	OECD Guideline 201 (Alga,
126098-16-6					Growth Inhibition Test)
Fatty acid amide	NOEC	0,0073 mg/l	72 h	not specified	OECD Guideline 201 (Alga,
126098-16-6					Growth Inhibition Test)
Cumene hydroperoxide	EC50	3,1 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga,
80-15-9				(reported as Scenedesmus	Growth Inhibition Test)
				subspicatus)	
Cumene hydroperoxide	NOEC	1 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga,
80-15-9				(reported as Scenedesmus	Growth Inhibition Test)
				subspicatus)	
maleic acid	EC50	74,35 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
110-16-7					Growth Inhibition Test)
maleic acid	EC10	11,8 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
110-16-7	1				Growth Inhibition Test)
1,4-Naphthalenedione	NOEC	0,07 mg/l	72 h	Pseudokirchneriella subcapitata	
130-15-4	1				Growth Inhibition Test)
1,4-Naphthalenedione	EC50	0,42 mg/l	72 h	Pseudokirchneriella subcapitata	
130-15-4					Growth Inhibition Test)

Toxicity to microorganisms

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Tetramethylene dimethacrylate 2082-81-7	NOEC	20 mg/l	28 d	activated sludge, domestic	not specified
2,4,6-Triallyloxy-s-triazine	EC0	5 mg/l	3 h		OECD Guideline 209
101-37-1					(Activated Sludge,
					Respiration Inhibition Test)
Fatty acid amide	EC50	Toxicity>Water	3 h	activated sludge of a	OECD Guideline 209
126098-16-6		solubility		predominantly domestic sewage	
					Respiration Inhibition Test)
Cumene hydroperoxide 80-15-9	EC10	70 mg/l	30 min		not specified
maleic acid	EC10	44,6 mg/l	18 h	Pseudomonas putida	DIN 38412, part 8
110-16-7				_	(Pseudomonas
					Zellvermehrungshemm-
					Test)
1,4-Naphthalenedione	EC50	5,94 mg/l	3 h	activated sludge of a	OECD Guideline 209
130-15-4				predominantly domestic sewage	(Activated Sludge,
					Respiration Inhibition Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Tetramethylene dimethacrylate 2082-81-7	readily biodegradable	aerobic	84 %	28 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
2,4,6-Triallyloxy-s-triazine 101-37-1		aerobic	7 - 9 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1		aerobic	4 - 14 %	29 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Fatty acid amide 126098-16-6	not readily biodegradable.	aerobic	7 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Cumene hydroperoxide 80-15-9	not readily biodegradable.	aerobic	3 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
maleic acid 110-16-7	readily biodegradable	aerobic	97,08 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
1,4-Naphthalenedione 130-15-4	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Tempe rature	Species	Method
Cumene hydroperoxide	9,1			calculation	OECD Guideline 305
80-15-9					(Bioconcentration: Flow-through
					Fish Test)

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Tetramethylene dimethacrylate 2082-81-7	3,1		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
2,4,6-Triallyloxy-s-triazine 101-37-1	2,8	20 °C	not specified
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1	4,14	30 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Fatty acid amide 126098-16-6	> 6,5	20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Cumene hydroperoxide 80-15-9	1,6	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Acetic acid, 2- phenylhydrazide 114-83-0	0,74		not specified
maleic acid 110-16-7	-1,3	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
1,4-Naphthalenedione 130-15-4	1,71		not specified

12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT/vPvB
CAS-No.	
Tetramethylene dimethacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
2082-81-7	Bioaccumulative (vPvB) criteria.
2,4,6-Triallyloxy-s-triazine	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
101-37-1	Bioaccumulative (vPvB) criteria.
2-[[2,2-bis[[(1-	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-	Bioaccumulative (vPvB) criteria.
1,3-propanediyl diacrylate	
94108-97-1	
Fatty acid amide	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
126098-16-6	Bioaccumulative (vPvB) criteria.
Cumene hydroperoxide	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
80-15-9	Bioaccumulative(vPvB) criteria.
maleic acid	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
110-16-7	Bioaccumulative(vPvB) criteria.
1,4-Naphthalenedione	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
130-15-4	Bioaccumulative(vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

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

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

 $08\ 04\ 09*$ waste adhesives and sealants containing organic solvents and other dangerous substances

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.

SECTION 14: Transport information

14.1. UN number

ADR	3082
RID	3082
ADN	3082
IMDG	3082
IATA	3082

14.2. UN proper shipping name

ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid
-----	---

amide)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid

amide)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid

amide)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid

amide)

IATA Environmentally hazardous substance, liquid, n.o.s. (Fatty acid amide)

14.3. Transport hazard class(es)

ADR	9
RID	9
ADN	9
IMDG	9
IATA	9

14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	Ш

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	Marine pollutant
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
	Tunnelcode:
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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): Not applicable Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Not applicable Persistent organic pollutants (Regulation (EU) 2019/1021): Not applicable

VOC content < 3 %

(2010/75/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

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:

H242 Heating may cause a fire.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Further information:

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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