

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

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SDS No.: 316211

V009.1 Revision: 19.06.2015

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Replaces version from: 03.03.2015

243 Threadlocker 50ml JCB

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

1.1. Product identifier

243 Threadlocker 50ml JCB

Contains:

Tetramethylene dimethacrylate Maleic acid Acetic acid, 2-phenylhydrazide

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 Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

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

ua-productsafety.uk@uk.henkel.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 sensitizer Category 1

H317 May cause an allergic skin reaction. Chronic hazards to the aquatic environment

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:



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Signal word: Warning

Hazard statement: H317 May cause an allergic skin reaction.

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 waste and residues in

accordance with local authority requirements***

Precautionary statement: P273 Avoid release to the environment.

Prevention P280 Wear protective gloves.

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

2.3. Other hazards

Response

None if used properly.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:

Anaerobic adhesive

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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
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 01-2119977121-41	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: 10 M factor (Chron Aquat Tox): 10
Cumene hydroperoxide 80-15-9	201-254-7	0,1-< 1 %	Acute Tox. 4; Dermal H312 STOT RE 2 H373 Acute Tox. 4; Oral H302 Org. Perox. E H242 Acute Tox. 3; Inhalation H331 Aquatic Chronic 2 H411 Skin Corr. 1B H314
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 Acute Tox. 4; Dermal H312 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 STOT SE 3 H335
1,4-Naphthalenedione 130-15-4	204-977-6	0,01-< 0,1 %	Acute Tox. 3; Oral H301 Skin Irrit. 2; Dermal H315 Skin Sens. 1; Dermal H317 Eye Irrit. 2 H319 Acute Tox. 1; Inhalation H330 STOT SE 3; Inhalation H335 Aquatic Acute 1

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	H400
	Aquatic Chronic 1
	H410
	M factor: 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.

Eve 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.

Prolonged or repeated contact may cause eye irritation.

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:

Carbon dioxide, foam, powder

Fine water spray

Extinguishing media which must not be used for safety reasons:

None known

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 skin and eye contact.

Ensure adequate ventilation.

6.2. Environmental precautions

Do not let product enter drains.

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6.3. Methods and material for containment and cleaning up

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

Use only in well-ventilated areas.

Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

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.

Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
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
Cumene 98-82-8 [CUMENE]	50	250	Short Term Exposure Limit (STEL):		EH40 WEL
Cumene 98-82-8 [CUMENE]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
Cumene 98-82-8 [CUMENE]	25	125	Time Weighted Average (TWA):		EH40 WEL
Cumene 98-82-8 [CUMENE]	50	250	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Cumene 98-82-8 [CUMENE]	20	100	Time Weighted Average (TWA):	Indicative	ECTLV

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

Name on list	Environmental Compartment	Exposure period	Value				Remarks
	Compartment	periou	mg/l	ppm	mg/kg	others	
2,4,6-Triallyloxy-1,3,5-triazine	aqua		IIIg/I	ppin	nig/kg	0,00705 mg/L	
101-37-1	(freshwater)					3,557.55	
2,4,6-Triallyloxy-1,3,5-triazine	aqua (marine					0,0007 mg/L	
101-37-1	water)						
2,4,6-Triallyloxy-1,3,5-triazine	aqua					0,0705 mg/L	
101-37-1	(intermittent releases)						
2,4,6-Triallyloxy-1,3,5-triazine	sediment				0,1729		
101-37-1	(freshwater)				mg/kg		
2,4,6-Triallyloxy-1,3,5-triazine	sediment				0,01729		
101-37-1	(marine water)				mg/kg		
2,4,6-Triallyloxy-1,3,5-triazine 101-37-1	soil				0,057		
2,4,6-Triallyloxy-1,3,5-triazine	STP				mg/kg	10 mg/L	
101-37-1	511					To mg/L	
2,4,6-Triallyloxy-1,3,5-triazine	oral				0,119		
101-37-1					mg/kg		
2-[[2,2-Bis[[(1-	aqua					0,0012 mg/L	
oxoallyl)oxy]methyl]butoxy]methyl]-2- ethyl-1,3-propanediyl diacrylate	(freshwater)						
94108-97-1							
2-[[2,2-Bis[[(1-	soil				0,098		
oxoallyl)oxy]methyl]butoxy]methyl]-2-					mg/kg		
ethyl-1,3-propanediyl diacrylate							
94108-97-1 2-[[2,2-Bis[[(1-	sediment				0,0493		
oxoallyl)oxy]methyl]butoxy]methyl]-2-	(marine water)				mg/kg		
ethyl-1,3-propanediyl diacrylate	(88		
94108-97-1							
2-[[2,2-Bis[[(1-	sediment				0,493		
oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate	(freshwater)				mg/kg		
94108-97-1							
2-[[2,2-Bis[[(1-	STP					100 mg/L	
oxoallyl)oxy]methyl]butoxy]methyl]-2-							
ethyl-1,3-propanediyl diacrylate 94108-97-1							
2-[[2,2-Bis[[(1-	aqua					0,012 mg/L	
oxoallyl)oxy]methyl]butoxy]methyl]-2-	(intermittent					0,012 mg/L	
ethyl-1,3-propanediyl diacrylate	releases)						
94108-97-1							
2-[[2,2-Bis[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-	aqua (marine					0,00012 mg/L	
ethyl-1,3-propanediyl diacrylate	water)						
94108-97-1							
Fatty acid amide~	aqua					0,000146	
126098-16-6	(freshwater)					mg/L	
Fatty acid amide~ 126098-16-6	aqua (marine water)					0,0146 g/L	
Fatty acid amide~	aqua		1			0,00025 mg/L	
126098-16-6	(intermittent					0,00023 IIIg/L	
	releases)		<u> </u>				
Fatty acid amide~	sediment				5,554		
126098-16-6	(marine water)				mg/kg		
Fatty acid amide~ 126098-16-6	aqua (freshwater)				55,54 mg/kg		
Fatty acid amide~	Soil		+		66,576		
126098-16-6			<u></u>		mg/kg		
Fatty acid amide~	STP					10 mg/L	
126098-16-6 Malaia asid	a gura		+			0.074 7	
Maleic acid 110-16-7	aqua (freshwater)					0,074 mg/L	
Maleic acid	aqua		+			0,744 mg/L	
110-16-7	(intermittent					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	releases)		1				
Maleic acid	sediment				0,0624		
Maleic acid	(freshwater) STP		+		mg/kg	3,33 mg/L	
110-16-7	211					J,JJ IIIg/L	
-10 10 /		1	I			<u> </u>	1

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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 bw/day	
Tetramethylene dimethacrylate 2082-81-7	Workers	inhalation	Long term exposure - systemic effects		14,5 mg/m3	
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 bw/day	
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 bw/day	
Fatty acid amide~ 126098-16-6	general population	Dermal	Long term exposure - systemic effects		8,3 mg/kg bw/day	
Fatty acid amide~ 126098-16-6	Workers	Dermal	Long term exposure - systemic effects		14 mg/kg bw/day	
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	
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 bw/day	
Maleic acid 110-16-7	Workers	Dermal	Long term exposure - systemic effects		3,3 mg/kg bw/day	

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

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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.

Skin protection:

Wear suitable protective clothing.

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 No data available / Not applicable

Initial boiling point > 70 °C (> 158 °F) Flash point > 110 °C (> 230 °F)

Decomposition temperature No data available / Not applicable

Vapour pressure 1,7 mbar

(25 °C (77 °F))

Vapour pressure < 300 mbar

(50 °C (122 °F))

Density 1,15 - 1,20 g/cm3

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Bulk density

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

Solubility (qualitative) Insoluble

(Solvent: Water)

Solubility (qualitative) Soluble

(Solvent: Acetone)

Solidification temperature No data available / Not applicable No data available / Not applicable Melting point No data available / Not applicable Flammability No data available / Not applicable Auto-ignition temperature Explosive limits No data available / Not applicable No data available / Not applicable Partition coefficient: n-octanol/water Evaporation rate No data available / Not applicable Vapor density No data available / Not applicable No data available / Not applicable Oxidising properties

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Peroxides.

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10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

No decomposition if used according to specifications.

10.5. Incompatible materials

See section reactivity

10.6. Hazardous decomposition products

carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Oral toxicity:

May cause irritation to the digestive tract.

Skin irritation:

Prolonged or repeated contact may cause skin irritation.

Eye irritation:

Prolonged or repeated contact may cause eye irritation.

Sensitizing:

May cause an allergic skin reaction.

Acute oral toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Tetramethylene	LD50	10.120 mg/kg	oral		rat	
dimethacrylate						
2082-81-7						
2,4,6-Triallyloxy-s-	LD50	753 mg/kg	oral		rat	OECD Guideline 401 (Acute
triazine						Oral Toxicity)
101-37-1						
2-[[2,2-bis[[(1-	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute
oxoallyl)oxy]methyl]buto						Oral Toxicity)
xy]methyl]-2-ethyl-1,3-						
propanediyl diacrylate						
94108-97-1	1.050	. 2.000 //	1			
Fatty acid amide~ 126098-16-6	LD50	> 2.000 mg/kg	oral		rat	
	LD50	550 ma/lsa	owo1		mot.	
Cumene hydroperoxide	LD30	550 mg/kg	oral		rat	
80-15-9 Maleic acid	LD50	708 mg/kg	oral		rot	
110-16-7	LD30	/Oo mg/kg	Orai		rat	
110-10-7	[ļ		l		

Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Fatty acid amide~	LD50	> 2.000 mg/kg	dermal		rat	
126098-16-6						
Maleic acid	LD50	1.560 mg/kg	dermal		rabbit	
110-16-7						

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Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	corrosive		rabbit	Draize Test

Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
2-[[2,2-bis[[(1-	Category II		rabbit	EU Method B.5 (Acute
oxoallyl)oxy]methyl]buto				Toxicity: Eye Irritation /
xy]methyl]-2-ethyl-1,3-				Corrosion)
propanediyl diacrylate				
94108-97-1				

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Tetramethylene dimethacrylate 2082-81-7	sensitising	Mouse local lymphnod	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
		e assay (LLNA)		

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Cumene hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Cumene hydroperoxide 80-15-9	negative	dermal		mouse	

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Cumene hydroperoxide 80-15-9		inhalation: aerosol	6 h/d 5 d/w	rat	

SECTION 12: Ecological information

General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

12.1. Toxicity

Ecotoxicity:

Toxic to aquatic life with long lasting effects.

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

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Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	LC50	32,5 mg/l	Fish	48 h		DIN 38412-15
2,4,6-Triallyloxy-s-triazine 101-37-1	LC50	4,36 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,4,6-Triallyloxy-s-triazine 101-37-1	EC50	19,4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate	LC50	1,2 mg/l	Fish	96 h	Cyprinus carpio	Immobilisation Test) OECD Guideline 203 (Fish, Acute Toxicity Test)
94108-97-1 2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3-	EC50	> 10 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
propanediyl diacrylate 94108-97-1 2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate	NOEC	< 0,35 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	Immobilisation Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
94108-97-1	EC50	> 12 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth
Fatty acid amide~ 126098-16-6	NOEC	> 0,024 mg/l	Fish	96 h	Cyprinus carpio	Inhibition Test) OECD Guideline 203 (Fish, Acute
Fatty acid amide~ 126098-16-6	NOEC	> 0,024 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation
Fatty acid amide~ 126098-16-6	NOEC	0,0073 mg/l	Algae	72 h		Test) OECD Guideline 201 (Alga, Growth
	EC50	0,025 mg/l	Algae	72 h		Inhibition Test) OECD Guideline 201 (Alga, Growth
Cumene hydroperoxide 80-15-9	LC50	3,9 mg/l	Fish	96 h	Oncorhynchus mykiss	Inhibition Test) OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene hydroperoxide 80-15-9	EC50	18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
Cumene hydroperoxide 80-15-9	ErC50	3,1 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	Immobilisation Test) OECD Guideline 201 (Alga, Growth
Maleic acid 110-16-7	LC50	> 245 mg/l	Fish	48 h	Leuciscus idus	Inhibition Test) DIN 38412-15
Maleic acid 110-16-7	EC50	42,81 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
1,4-Naphthalenedione 130-15-4	EC50	0,011 mg/l	Algae	72 h	Dunaliella bioculata	Immobilisation Test) OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

Persistence and Biodegradability: The product is not biodegradable.

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		

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Tetramethylene dimethacrylate 2082-81-7	readily biodegradable	aerobic	84 %	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
2,4,6-Triallyloxy-s-triazine 101-37-1		aerobic	7 - 9 %	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 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Fatty acid amide~ 126098-16-6		aerobic	7 %	
Cumene hydroperoxide 80-15-9		no data	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Maleic acid 110-16-7	readily biodegradable	aerobic	97,08 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
1,4-Naphthalenedione 130-15-4		no data	0 - 60 %	OECD 301 A - F

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Mobility:

Cured adhesives are immobile.

Bioaccumulative potential: No data available.

Hazardous components	LogKow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time	-	_	
Tetramethylene	3,1					OECD Guideline 117
dimethacrylate						(Partition Coefficient (n-
2082-81-7						octanol / water), HPLC
						Method)
2,4,6-Triallyloxy-s-triazine 101-37-1	2,8				20 °C	
2-[[2,2-bis[[(1-	4,14				30 °C	OECD Guideline 117
oxoallyl)oxy]methyl]butoxy]						(Partition Coefficient (n-
methyl]-2-ethyl-1,3-						octanol / water), HPLC
propanediyl diacrylate						Method)
94108-97-1						
Cumene hydroperoxide		9,1		calculation		OECD Guideline 305
80-15-9						(Bioconcentration: Flow-
	2.1.5					through Fish Test)
Cumene hydroperoxide 80-15-9	2,16					
Acetic acid, 2-	0,74					
phenylhydrazide						
114-83-0						
Maleic acid	-1,3				20 °C	OECD Guideline 107
110-16-7						(Partition Coefficient (n-
						octanol / water), Shake
						Flask Method)
1,4-Naphthalenedione	1,71					
130-15-4						

12.5. Results of PBT and vPvB assessment

Hazardous components	PBT/vPvB
CAS-No.	

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Tetramethylene dimethacrylate 2082-81-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2,4,6-Triallyloxy-s-triazine 101-37-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-[[2,2-bis[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Maleic acid 110-16-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Contribution of this product to waste is very insignificant in comparison to article in which it is used

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.

Disposal must be made according to official regulations.

Waste code

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

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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)
DID	ENTITION ACTUALLY HAZADDOHO GIDGEANGE LIGHTON NO G /E '1

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

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

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

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. Packaging group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

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: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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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.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic 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:

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.

Label elements (DPD):

Xi - Irritant

N - Dangerous for the environment





Risk phrases:

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S24 Avoid contact with skin.

S37 Wear suitable gloves.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Additional labeling:

For consumer use only: S2 Keep out of the reach of children.

S46 If swallowed, seek medical advice immediately and show this container or label.

Contains:

Maleic acid,

Tetramethylene dimethacrylate

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Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.