

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 1 of 16

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

1.1. Product identifier

MOIIN Nano Rigid

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

Uses advised against

pregnant or breastfeeding people should not work with hazardous substances

1.3. Details of the supplier of the safety data sheet

Company name:	DMG Digital Enterprises SE	
Street:	Elbgaustrasse 248	
Place:	D-22547 Hamburg	
Telephone:	+49 40 84006-0	Telefax: +49 40 84006-222
e-mail:	info@dmg-digital.com	
Contact person:	A. Brunner	
Internet:	www.dmg-digital.com	
Responsible Department:	Quality Management	

Further Information

The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Sens. 1; H317
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)

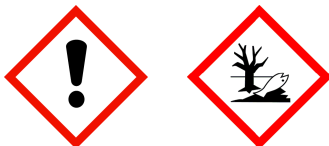
Triethylene glycol dimethacrylate

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate

Signal word: Warning

Pictograms:



Hazard statements

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye/face protection.
P391 Collect spillage.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 2 of 16

Special labelling of certain mixtures

Contains 5 - < 10 % of components with unknown hazards to the aquatic environment.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)			25 - < 30 %
	276-957-5		01-2120751202-68	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
109-16-0	Triethylene glycol dimethacrylate			10 - < 15 %
	203-652-6		01-2119969287-21	
	Skin Sens. 1B; H317			
6606-59-3	1,6-hexanediol dimethacrylate			5 - < 10 %
	229-551-7		01-2120760621-59	
	Aquatic Chronic 3; H412			
7534-94-3	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate			5 - < 10 %
	231-403-1		01-2119886505-27	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Chronic 3; H315 H319 H335 H412			
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			1 - < 5 %
	278-355-8	015-203-00-X	01-2119972295-29	
	Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361f H317 H411			
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			< 1 %
	201-297-1	607-035-00-6	01-2119452498-28	
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335			
64-19-7	acetic acid 100%			< 0.1 %
	200-580-7	607-002-00-6		
	Flam. Liq. 3, Skin Corr. 1A; H226 H314			
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve			< 0.1 %
	203-905-0	603-014-00-0	01-2119475108-36	
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H332 H302 H315 H319			

Full text of H and EUH statements: see section 16.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 3 of 16

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
72869-86-4	276-957-5	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)	25 - < 30 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
109-16-0	203-652-6	Triethylene glycol dimethacrylate	10 - < 15 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
6606-59-3	229-551-7	1,6-hexanediol dimethacrylate	5 - < 10 %
		oral: LD50 = >2000 mg/kg	
7534-94-3	231-403-1	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	5 - < 10 %
		dermal: LD50 = >3000 mg/kg; oral: LD50 = 3100 mg/kg	
75980-60-8	278-355-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	1 - < 5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
80-62-6	201-297-1	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	< 1 %
		inhalation: LC50 = 29,8 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = 7870 mg/kg	
64-19-7	200-580-7	acetic acid 100%	< 0.1 %
		inhalation: LC50 = 2819 mg/l (dusts or mists); oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 25 - < 90 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25	
111-76-2	203-905-0	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	< 0.1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: ATE 1200 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Call a physician immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO₂).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

CO_x, NO_x

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 4 of 16

General advice

Wear suitable protective clothing. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

Advice on general occupational hygiene

When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.
Store only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
128-37-0	2,6-Ditertiary-butyl-para-cresol	-	2		TWA (8 h)	
111-76-2	2-Butoxyethanol (EGBE)	20	98		TWA (8 h)	
		50	246		STEL (15 min)	
64-19-7	Acetic acid	10	25		TWA (8 h)	
		20	50		STEL (15 min)	
108-31-6	Maleic anhydride (Inhalable Fraction and Vapour)	0.1	-		TWA (8 h)	
79-41-4	Methacrylic acid	20	70		TWA (8 h)	
		40	140		STEL (15 min)	
80-62-6	Methyl methacrylate	50	-		TWA (8 h)	
		100	-		STEL (15 min)	
13463-67-7	Titanium dioxide, total inhalable dust	-	10		TWA (8 h)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	BAA	200 mg/g	Creatinine	End of shift

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 5 of 16

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)			
Worker DNEL, long-term		inhalation	systemic	3,3 mg/m ³
Worker DNEL, long-term		dermal	systemic	1,3 mg/kg bw/day
109-16-0	Triethylene glycol dimethacrylate			
Worker DNEL, long-term		inhalation	systemic	48,5 mg/m ³
Worker DNEL, long-term		dermal	systemic	13,9 mg/kg bw/day
6606-59-3	1,6-hexanediol dimethacrylate			
Worker DNEL, long-term		inhalation	systemic	14,5 mg/m ³
Worker DNEL, long-term		dermal	systemic	4,2 mg/kg bw/day
7534-94-3	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate			
Worker DNEL, long-term		dermal	systemic	1,04 mg/kg bw/day
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			
Worker DNEL, long-term		inhalation	systemic	3,5 mg/m ³
Worker DNEL, long-term		dermal	systemic	1 mg/kg bw/day
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			
Worker DNEL, long-term		inhalation	systemic	208 mg/m ³
Worker DNEL, long-term		dermal	systemic	13,7 mg/kg bw/day
Worker DNEL, acute		dermal	local	1,5 mg/cm ²
128-37-0	2,6-Di-tert-butyl-4-methylphenol			
Worker DNEL, long-term		inhalation	systemic	3,5 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
13463-67-7	titanium dioxide			
Worker DNEL, long-term		inhalation	local	10 mg/m ³
79-41-4	methacrylic acid; 2-methylpropenoic acid			
Worker DNEL, long-term		dermal	systemic	4,25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	29,6 mg/m ³
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve			
Worker DNEL, long-term		dermal	systemic	125 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	89 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	98 mg/m ³
Worker DNEL, acute		inhalation	systemic	1091 mg/m ³
Worker DNEL, long-term		inhalation	local	246 mg/m ³
108-31-6	maleic anhydride			
Worker DNEL, long-term		inhalation	systemic	0,081 mg/m ³
Worker DNEL, acute		inhalation	systemic	0,2 mg/m ³
Worker DNEL, long-term		inhalation	local	0,081 mg/m ³

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 6 of 16

PNEC values

CAS No	Substance	Value
Environmental compartment		Value
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)	
Freshwater		0,01 mg/l
Marine water		0,001 mg/l
Freshwater sediment		4,56 mg/kg
Marine sediment		0,456 mg/kg
Micro-organisms in sewage treatment plants (STP)		3,61 mg/l
Soil		0,91 mg/kg
109-16-0	Triethylene glycol dimethacrylate	
Freshwater		0,164 mg/l
Marine water		0,0164 mg/l
Freshwater sediment		1,85 mg/kg
Marine sediment		0,185 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,274 mg/kg
6606-59-3	1,6-hexanediol dimethacrylate	
Freshwater		0,00488 mg/l
Marine water		0,000488 mg/l
Freshwater sediment		0,262 mg/kg
Marine sediment		0,026 mg/kg
Micro-organisms in sewage treatment plants (STP)		800 mg/l
Soil		0,05 mg/kg
7534-94-3	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	
Freshwater		0,00466 mg/l
Freshwater (intermittent releases)		0,0179 mg/l
Marine water		0,000466 mg/l
Freshwater sediment		0,604 mg/kg
Marine sediment		0,06 mg/kg
Micro-organisms in sewage treatment plants (STP)		2,45 mg/l
Soil		0,118 mg/kg
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	
Freshwater		0,004 mg/l
Freshwater (intermittent releases)		0,035 mg/l
Marine water		0 mg/l
Freshwater sediment		0,29 mg/l
Marine sediment		0,029 mg/l
Soil		0,056 mg/kg
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	
Freshwater		0,94 mg/l
Marine water		0,094 mg/l
Freshwater sediment		10,2 mg/kg

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 7 of 16

Marine sediment	10,2 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	1,48 mg/kg
128-37-0	2,6-Di-tert-butyl-4-methylphenol
Freshwater	0,000199 mg/l
Freshwater (intermittent releases)	0,00199 mg/l
Marine water	0,000199 mg/l
Freshwater sediment	0,0996 mg/kg
Marine sediment	0,00996 mg/kg
Soil	0,04769 mg/kg
13463-67-7	titanium dioxide
Freshwater	0,127 mg/l
Freshwater (intermittent releases)	0,61 mg/l
Marine water	1 mg/l
Freshwater sediment	1000 mg/kg
Marine sediment	100 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	100 mg/kg
79-41-4	methacrylic acid; 2-methylpropenoic acid
Freshwater	0,82 mg/l
Freshwater (intermittent releases)	0,82 mg/l
Marine water	0,82 mg/l
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	1,2 mg/kg
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve
Freshwater	8,80 mg/l
Freshwater (intermittent releases)	26,4 mg/l
Marine water	0,88 mg/l
Freshwater sediment	34,6 mg/kg
Marine sediment	3,46 mg/kg
Secondary poisoning	20,0 mg/kg
Micro-organisms in sewage treatment plants (STP)	463,0 mg/l
Soil	2,33 mg/kg
108-31-6	maleic anhydride
Freshwater	0,038 mg/l
Marine water	0,004 mg/l
Freshwater sediment	0,296 mg/kg
Marine sediment	0,03 mg/kg
Micro-organisms in sewage treatment plants (STP)	44,6 mg/l
Soil	0,037 mg/kg

8.2. Exposure controls

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 8 of 16

**Appropriate engineering controls**

Ensure adequate ventilation of the storage area.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Tightly sealed safety glasses.

Hand protection

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

Respiratory protection

The following must be prevented: inhalation.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	yellow
Odour:	like: ester

Test method**Changes in the physical state**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
point of decomposition:	> 200 °C estim.
Flash point:	> 100 °C
Lower explosion limits:	not determined
Upper explosion limits:	not determined
pH-Value:	not determined
Water solubility: (at 20 °C)	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1.1 g/cm ³ calc.
Relative vapour density:	> 1

SECTION 10: Stability and reactivity**10.4. Conditions to avoid**

Light. heat.

Decomposition takes place from temperatures above: 200 °C

Decomposition under formation of: Acrylate.

10.5. Incompatible materials

Keep away from strong acids, leachates, heavy metal salts and reducing materials.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 9 of 16

10.6. Hazardous decomposition products

In case of fire may be liberated: Gas / vapours, irritant. (Acrylate., pungent)

Further information

Substances sensitive to light.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Based on available data, the classification criteria are not met.

ATEmix (oral, rat): > 3696 mg/kg

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 10 of 16

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)				
	oral	LD50 >5000 mg/kg	Rat	supplier SDS	OECD 401
	dermal	LD50 >2000 mg/kg	Rat	supplier SDS	OECD 402
109-16-0	Triethylene glycol dimethacrylate				
	oral	LD50 >5000 mg/kg	Rat	supplier SDS	
	dermal	LD50 >2000 mg/kg	Mouse	supplier SDS	
6606-59-3	1,6-hexanediol dimethacrylate				
	oral	LD50 >2000 mg/kg	Rat	ECHA	OECD 423
7534-94-3	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate				
	oral	LD50 3100 mg/kg	Rat	supplier SDS	
	dermal	LD50 >3000 mg/kg	Rabbit	supplier SDS/ ECHA	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide				
	oral	LD50 > 5000 mg/kg	Rat	supplier SDS	
	dermal	LD50 > 2000 mg/kg	Rat	supplier SDS	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate				
	oral	LD50 7870 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 29,8 mg/l	Rat		
64-19-7	acetic acid 100%				
	oral	LD50 3310 mg/kg	Rat	supplier SDS	
	inhalation (4 h) dust/mist	LC50 2819 mg/l	Mouse	supplier SDS	
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve				
	oral	ATE 1200 mg/kg			
	dermal	LD50 >2000 mg/kg	Guinea pig	ECHA	OECD 402
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 11 of 16

Sensitising effects

May cause an allergic skin reaction. (7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers); Triethylene glycol dimethacrylate; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; maleic anhydride)
May cause sensitization by skin contact.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

Contains Methacrylic esters.: May produce an allergic reaction.

SECTION 12: Ecological information

12.1. Toxicity

Preparation not tested.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 12 of 16

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)					
	Acute fish toxicity	LC50 mg/l	10,1	96 h	Brachydanio rerio	supplier SDS OECD 203
	Acute algae toxicity	ErC50 mg/l	>0,68	72 h	Desmodesmus subspicatus	supplier SDS OECD 201
	Acute crustacea toxicity	EC50 mg/l	>1,2	48 h	Daphnia magna (Big water flea)	supplier SDS OECD 202
	Algae toxicity	NOEC mg/l	0,21	3 d	Desmodesmus subspicatus	supplier SDS OECD 201
109-16-0	Triethylene glycol dimethacrylate					
	Acute fish toxicity	LC50 mg/l	16,4	96 h	Brachydanio rerio	supplier SDS OECD 203
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Pseudokirchneriella subcapitata	OECD 201
	Crustacea toxicity	NOEC	32 mg/l	21 d	Daphnia magna (Big water flea)	
6606-59-3	1,6-hexanediol dimethacrylate					
	Acute fish toxicity	LC50	4,5 mg/l	96 h	Danio rerio (zebrafish)	supplier SDS/ ECHA OECD 203
	Acute algae toxicity	ErC50 mg/l	5,33	72 h		ECHA
	Acute crustacea toxicity	EC50 mg/l	11,2	48 h	Daphnia magna (Big water flea)	supplier SDS/ ECHA
7534-94-3	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate					
	Acute fish toxicity	LC50 mg/l	1,79	96 h	Danio rerio (zebrafish)	supplier SDS OECD 203
	Acute algae toxicity	ErC50 mg/l	2,28	72 h	Pseudokirchneriella subcapitata	supplier SDS OECD 201
	Acute crustacea toxicity	EC50 mg/l	>2,57	48 h	Daphnia magna (Big water flea)	ECHA OECD 202
	Crustacea toxicity	NOEC mg/l	0,233	21 d	Daphnia magna (Big water flea)	supplier SDS OECD 211
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide					
	Acute fish toxicity	LC50 mg/l	6,53	96 h	Oryzias latipes (Ricefish)	supplier SDS
	Acute algae toxicity	ErC50 mg/l	> 2,01	72 h	Scenedesmus subspicatus	supplier SDS
	Acute crustacea toxicity	EC50 mg/l	3,53	48 h	Daphnia magna (Big water flea)	supplier SDS
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	3 h	Activated sludge	supplier SDS
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate					
	Acute fish toxicity	LC50 mg/l	>100	96 h		supplier SDS OECD 203
	Acute algae toxicity	ErC50	110 mg/l	72 h	Selenastrum capricornutum	ECHA
	Acute crustacea toxicity	EC50	69 mg/l	48 h	Daphnia magna (Big water flea)	ECHA

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 13 of 16

	Fish toxicity	NOEC	9,4 mg/l			supplier SDS	OECD 210
	Algae toxicity	NOEC	>110 mg/l		Selenastrum capricornutum	supplier SDS	OECD 201
	Crustacea toxicity	NOEC	37 mg/l		Daphnia magna (Big water flea)	supplier SDS	OECD 202
64-19-7	acetic acid 100%						
	Acute fish toxicity	LC50	>1000 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	supplier SDS	OECD 203
	Acute algae toxicity	ErC50	>1000 mg/l	72 h	Skeletonema costatum	supplier SDS	OECD 201
	Acute crustacea toxicity	EC50	>1000 mg/l	48 h	Daphnia magna (Big water flea)	supplier SDS	OECD 202
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve						
	Acute fish toxicity	LC50	>1474 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA	OECD 203
	Acute algae toxicity	ErC50	911 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Acute crustacea toxicity	EC50	1550 mg/l	48 h	Daphnia magna (Big water flea)	ECHA	OECD 202
	Fish toxicity	NOEC	100 mg/l	21 d	Danio rerio (zebrafish)	ECHA	OECD 204
	Crustacea toxicity	NOEC	100 mg/l	21 d	Daphnia magna (Big water flea)	ECHA	OECD 211

12.2. Persistence and degradability

Preparation not tested.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 14 of 16

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)			
	OECD 301F	22%	28	
	Not readily biodegradable (according to OECD criteria)			
109-16-0	Triethylene glycol dimethacrylate			
	OECD 301B	85%		
	Readily biodegradable (according to OECD criteria).			
6606-59-3	1,6-hexanediol dimethacrylate			
	OECD 301F	91,1%	28	
	Easily biodegradable (concerning to the criteria of the OECD)			
7534-94-3	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate			
	OECD 310	70%	28	
	Readily biodegradable (according to OECD criteria).			
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			
	OECD 301 F	0-10%	28	
	Not readily biodegradable (according to OECD criteria)			
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			
	OECD 301C	94%	14	
	Readily biodegradable (according to OECD criteria).			
64-19-7	acetic acid 100%			
	OECD 301D	99%		
	Easily biodegradable (concerning to the criteria of the OECD)			
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve			
		90,4%	28	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

Preparation not tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)	3,39
109-16-0	Triethylene glycol dimethacrylate	2,3
6606-59-3	1,6-hexanediol dimethacrylate	4,08
7534-94-3	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	5,09
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3,1
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	1,38
64-19-7	acetic acid 100%	-0,17
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	0,8

BCF

CAS No	Chemical name	BCF	Species	Source
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	18-72		

12.4. Mobility in soil

Preparation not tested.

12.5. Results of PBT and vPvB assessment

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 15 of 16

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Preparation not tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Preparation not tested.

Further information

Do not allow to enter into surface water or drains. Leakage into the environment must be prevented.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

liquid: Carry out a burning of hazardous waste according to official regulations.

solid: Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

List of Wastes Code - residues/unused products

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing hazardous substances; hazardous waste

SECTION 14: Transport information

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Other applicable information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2010/75/EU (VOC): 0,033 % (0,36 g/l)

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

SECTION 16: Other information

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Nano Rigid

Revision date: 24.10.2022

Product code: 023620

Page 16 of 16

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)