

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Wax Cast Resin

Revision date: 24.10.2022

Product code: 023621

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

1.1. Product identifier

MOIIN Wax Cast Resin

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 Irrit. 2; H315
 Eye Irrit. 2; H319
 Skin Sens. 1; H317
 STOT SE 3; H335
 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

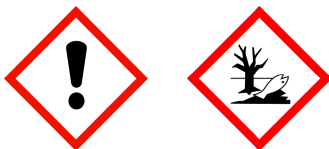
Regulation (EC) No 1272/2008

Hazard components for labelling

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
 Glycerol, propoxylated, esters with acrylic acid
 Dodecylacrylate
 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Signal word: Warning

Pictograms:



Hazard statements

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 statements

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P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Special labelling of certain mixtures

Contains 30 - < 35 % of components with unknown hazards to the aquatic environment.
30 - < 35 % of the mixture consists of ingredient(s) of unknown acute toxicity.

2.3. Other hazards

Endocrine disrupting properties: 2,6-Di-tert-butyl-4-methylphenol.

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)			
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate			45 - < 50 %
	256-032-2	607-249-00-X	01-2119484613-34	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Chronic 2; H315 H319 H317 H335 H411			
52408-84-1	Glycerol, propoxylated, esters with acrylic acid			15 - < 20 %
	500-114-5		01-2119487948-12	
	Eye Irrit. 2, Skin Sens. 1B; H319 H317			
2156-97-0	Dodecylacrylate			5 - < 10 %
	218-463-4		01-2119976296-23	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Chronic 2; H315 H319 H317 H335 H411			
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide			< 1 %
	423-340-5	015-189-00-5		
	Skin Sens. 1A, Aquatic Chronic 4; H317 H413			
128-37-0	2,6-Di-tert-butyl-4-methylphenol			< 1 %
	204-881-4		01-2119565113-46	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			

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

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
42978-66-5	256-032-2	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	45 - < 50 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg STOT SE 3; H335: >= 10 - 100	
52408-84-1	500-114-5	Glycerol, propoxylated, esters with acrylic acid	15 - < 20 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
2156-97-0	218-463-4	Dodecylacrylate	5 - < 10 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5570 mg/kg	
162881-26-7	423-340-5	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	< 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
128-37-0	204-881-4	2,6-Di-tert-butyl-4-methylphenol	< 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2930 mg/kg M acute; H400: M=1 M chron.; H410: M=1	

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****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**

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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)	

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate			
Worker DNEL, long-term		inhalation	systemic	2,35 mg/m ³
Worker DNEL, long-term		dermal	systemic	1,7 mg/kg bw/day
52408-84-1	Glycerol, propoxylated, esters with acrylic acid			
Worker DNEL, long-term		inhalation	systemic	7,4 mg/m ³
Worker DNEL, long-term		dermal	systemic	2,1 mg/kg bw/day
2156-97-0	Dodecylacrylate			
Worker DNEL, long-term		inhalation	systemic	97,9 mg/m ³
Worker DNEL, long-term		dermal	systemic	138,9 mg/kg bw/day
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide			
Worker DNEL, long-term		inhalation	systemic	21 mg/m ³
Worker DNEL, long-term		dermal	systemic	3,3 mg/kg bw/day
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

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PNEC values

CAS No	Substance	Value
Environmental compartment		
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	
Freshwater		0,005 mg/l
Marine water		0 mg/l
Freshwater sediment		0,487 mg/kg
Marine sediment		0,049 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,095 mg/kg
52408-84-1	Glycerol, propoxylated, esters with acrylic acid	
Freshwater		0,006 mg/l
Freshwater (intermittent releases)		0,057 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,017 mg/kg
Marine sediment		0,002 mg/kg
Secondary poisoning		5,6 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,001 mg/kg
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	
Freshwater		0,001 mg/l
Freshwater (intermittent releases)		0,001 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,712 mg/kg
Marine sediment		0,712 mg/kg
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Soil		20 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

8.2. Exposure controls**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.

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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.

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): > 2104 mg/kg

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate				
	oral	LD50 >2000 mg/kg	Rat	supplier SDS/ ECHA	OECD 423
	dermal	LD50 >2000 mg/kg	Rabbit	supplier SDS/ ECHA	OECD 402
52408-84-1	Glycerol, propoxylated, esters with acrylic acid				
	oral	LD50 > 2000 mg/kg	Rat	supplier SDS	OECD 401
	dermal	LD50 > 2000 mg/kg	Rabbit	supplier SDS	OECD 402
2156-97-0	Dodecylacrylate				
	oral	LD50 > 5570 mg/kg	Rat	supplier SDS	OECD 401
	dermal	LD50 > 5000 mg/kg	Rat	supplier SDS	OECD 402
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide				
	oral	LD50 > 2000 mg/kg	Rat	supplier SDS	
	dermal	LD50 > 2000 mg/kg	Rat	supplier SDS	
128-37-0	2,6-Di-tert-butyl-4-methylphenol				
	oral	LD50 > 2930 mg/kg	Rat	supplier SDS	OECD 401
	dermal	LD50 > 2000 mg/kg	Rat	supplier SDS	OECD 402

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. ((1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate;

Glycerol, propoxylated, esters with acrylic acid; Dodecylacrylate; phenyl bis(2,4,6-trimethylbenzoyl)

-phosphine oxide)

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

May cause respiratory irritation. ((1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate)

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.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate					
	Acute fish toxicity	LC50 >4,6 mg/l	96 h	Leuciscus idus (golden orfe)	supplier SDS	
	Acute algae toxicity	ErC50 65,9 mg/l	72 h	Pseudokirchneriella subcapitata	supplier SDS	
	Acute crustacea toxicity	EC50 89 mg/l	48 h	Daphnia magna (Big water flea)	supplier SDS	
	Acute bacteria toxicity	(EC50 >1000 mg/l)	0,5 h	Activated sludge	supplier SDS	
52408-84-1	Glycerol, propoxylated, esters with acrylic acid					
	Acute fish toxicity	LC50 5,74 mg/l	96 h	Danio rerio (zebrafish)	supplier SDS	OECD 203
	Acute algae toxicity	ErC50 12,2 mg/l	72 h	Desmodesmus subspicatus	supplier SDS	OECD 201
	Acute crustacea toxicity	EC50 91,4 mg/l	48 h	Daphnia magna (Big water flea)	supplier SDS	OECD 202
	Algae toxicity	NOEC 2,06 mg/l	3 d	Desmodesmus subspicatus	supplier SDS	OECD 201
	Acute bacteria toxicity	(EC50 > 1000 mg/l)		Activated sludge	supplier SDS	OECD 209
2156-97-0	Dodecylacrylate					
	Acute fish toxicity	LC50 460 mg/l	96 h	Danio rerio (zebrafish)	ECHA	
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna (Big water flea)	ECHA	
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide					
	Acute fish toxicity	LC50 > 0,090 mg/l	96 h	B.Danio rerio (zebrafish)	supplier SDS	
	Acute algae toxicity	ErC50 > 0,260 mg/l	72 h	Desmodesmus subspicatus	supplier SDS	
	Acute crustacea toxicity	EC50 > 1,175 mg/l	48 h	Daphnia magna (Big water flea)	supplier SDS	
	Crustacea toxicity	NOEC 0,008 mg/l	21 d	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(EC50 > 100 mg/l)	3 h	Activated sludge	supplier SDS	
128-37-0	2,6-Di-tert-butyl-4-methylphenol					
	Acute fish toxicity	LC50 >0,57 mg/l	96 h	Danio rerio (zebrafish)	supplier SDS	
	Acute algae toxicity	ErC50 > 0,4 mg/l	72 h	Desmodesmus subspicatus	supplier SDS	
	Acute crustacea toxicity	EC50 0,48 mg/l	48 h	Daphnia magna (Big water flea)	supplier SDS	OECD 202
	Acute bacteria toxicity	(EC50 > 10000 mg/l)	3 h	Activated sludge	MSDS	OECD 209

12.2. Persistence and degradability

Preparation not tested.

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate			
	OECD 301B	48%	28	
	Not readily biodegradable (according to OECD criteria)			
52408-84-1	Glycerol, propoxylated, esters with acrylic acid			
	OECD 301B	79%	28	
	Easily biodegradable (concerning to the criteria of the OECD)			
2156-97-0	Dodecylacrylate			
	OECD 301B	80 - 90 %	28	
	Easily biodegradable (concerning to the criteria of the OECD)			
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide			
	OECD 301B	1 %	28	
	Not readily biodegradable (according to OECD criteria)			
128-37-0	2,6-Di-tert-butyl-4-methylphenol			
	Persistence and degradability	< 10 %	20	OECD 301D
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

Preparation not tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	2,5
52408-84-1	Glycerol, propoxylated, esters with acrylic acid	2,52
2156-97-0	Dodecylacrylate	> 6.5
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	5,8
128-37-0	2,6-Di-tert-butyl-4-methylphenol	5,10

BCF

CAS No	Chemical name	BCF	Species	Source
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	< 5	Cyprinus carpio (Common Carp)	

12.4. Mobility in soil

Preparation not tested.

12.5. Results of PBT and vPvB assessment

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

Endocrine disrupting properties: 2,6-Di-tert-butyl-4-methylphenol.

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.

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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 Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 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.
 H413 May cause long lasting harmful effects to aquatic life.

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.)