

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN Wax Cast Resin

Revision date: 08.11.2018

Product code: 2236

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

1.1. Product identifier

MOIIN Wax Cast Resin

Further trade names

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

Product group: Mixtures

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

Use of the substance/mixture

Manufacture of plastics products, including compounding and conversion

Uses advised against

Do not use for medical-clinical purposes.

1.3. Details of the supplier of the safety data sheet

Company name:	DMG Digital Enterprises GmbH
Street:	Elbgaustrasse 247
Place:	D-22547 Hamburg
Telephone:	+49. (0) 40. 84006-0
e-mail:	info@dmg-digital.com
Internet:	www.dmg-digital.com
Responsible Department:	Scientific Affairs / Wissenschaft

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

tripropylenglycol diacrylate

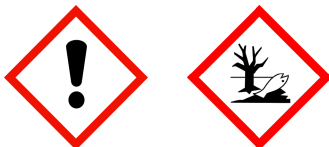
Propoxylated glyceryl acrylate

lauryl acrylate

Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphinoxide

Signal word: Warning

Pictograms:



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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

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
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.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
P405	Store locked up.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
42978-66-5	tripropylenglycol diacrylate			40 - 50 %
	256-032-2		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	Propoxylated glyceryl acrylate			15 - 20 %
	500-114-5		01-2119487948-12	
	Eye Irrit. 2, Skin Sens. 1B; H319 H317			
2156-97-0	lauryl acrylate			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)-phosphinoxide			0,1 - 1 %
	423-340-5		01-2119489401-38	
	Skin Sens. 1, Aquatic Chronic 4; H317 H413			
128-37-0	2,6-Di-tert-butyl-4-methylphenol			0,1 - 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.

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information

In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.
 In case of respiratory tract irritation, consult a physician.
 Remove casualty to fresh air and keep warm and at rest.
 Remove contaminated, saturated clothing immediately.
 When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air.
 When in doubt or if symptoms are observed, get medical advice.

After contact with skin

Wash with plenty of soap and water.
 If skin irritation occurs: Get medical advice/attention.

After contact with eyes

Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth.
 Do NOT induce vomiting.
 Get medical advice/attention if you feel unwell.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: No known hazardous decomposition products.
 Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
 Co-ordinate fire-fighting measures to the fire surroundings.
 Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
 Fight fire with normal precautions from a reasonable distance.
 Use suitable breathing apparatus.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel:
 Remove persons to safety.
 Ventilate affected area.

For emergency responders
 Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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Retain contaminated washing water and dispose it.

6.3. Methods and material for containment and cleaning up

Collect spillage.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal.

Ventilate affected area.

6.4. Reference to other sections

Hazardous combustion products: SECTION 5: Firefighting measures

Personal protection equipment: see section 8

Incompatible materials: SECTION 10: Stability and reactivity

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Further information on handling

Avoid release to the environment.

When using do not eat, drink or smoke.

Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Do not keep the container sealed.

Hints on joint storage

Incompatible materials: Acids, Base Oxidizing agent, Reducing agent, Radical former

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Ensure adequate ventilation of the storage area.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
128-37-0	2,6-Di-tert-butyl-p-cresol	-	10		TWA (8 h)	WEL

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Wear eye/face protection.

Hand protection

Wear suitable gloves.

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Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Do not allow to enter into surface water or drains.

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

Physical state:	Liquid
Colour:	clear greenish blue
Odour:	not determined
Changes in the physical state	
Flash point:	> 200 °C °C
Sustaining combustion:	No data available
Lower explosion limits:	Mixture not tested.
Upper explosion limits:	Mixture not tested.
Ignition temperature:	Mixture not tested.
Vapour pressure:	Mixture not tested.
Density (at 25 °C):	ca. 1.12 g/cm ³ g/cm ³
Water solubility:	partially miscible
Partition coefficient:	Mixture not tested.
Vapour density:	Mixture not tested.

9.2. Other information

none

SECTION 10: Stability and reactivity**10.1. Reactivity**

Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

In case of warming: Polymerisation

In case of light influence: Polymerisation

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

UV-radiation/sunlight

10.5. Incompatible materials

Acids, Base, Oxidizing agent, Reducing agent, Radical former.

10.6. Hazardous decomposition products

Hazardous decomposition products: No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

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Acute toxicity

LD50, oral (rat): > 2000 mg/kg (calculated from raw materials)

ATEmix tested

LD50, oral	Dose	Species	Source
	> 2000 mg/kg	rat	(calc.)

CAS No	Chemical name	Exposure route	Dose	Species	Source	Method
42978-66-5	tripropylenglycol diacrylate	oral	LD50 > 2000 mg/kg	rattus	MSDS	OECD 423
		dermal	LD50 > 2000 mg/kg	rabbit	MSDS	OECD 402
52408-84-1	Propoxylated glyceryl acrylate	oral	LD50 > 2000 mg/kg	rat	MSDS	OECD 401
		dermal	LD50 > 2000 mg/kg	rabbit	MSDS	OECD 402
2156-97-0	lauryl acrylate	oral	LD50 > 5570 mg/kg	rattus	MSDS	OECD 401
		dermal	LD50 > 5000 mg/kg	rattus	MSDS	OECD 402
162881-26-7	Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphin oxide	oral	LD50 > 2000 mg/kg	rattus	MSDS	
		dermal	LD50 > 2000 mg/kg	rattus		
128-37-0	2,6-Di-tert-butyl-4-methylphenol	oral	LD50 > 6000 mg/kg	rattus	MSDS	OECD 401
		dermal	LD50 > 2000 mg/kg	rattus	MSDS	OECD 402

SECTION 12: Ecological information

12.1. Toxicity

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

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
42978-66-5	tripropylenglycol diacrylate					
	Acute fish toxicity	LC50 4,6 mg/l	96 h	L. idus	MSDD	DIN 38412-15
	Acute algae toxicity	ErC50 65,9 mg/l	72 h	D. subspicatus	MSDS	DIN 38412-9
	Acute crustacea toxicity	EC50 89 mg/l	48 h	D. magna	MSDS	US EPA
	Algea toxicity	NOEC 6,6 mg/l	3 d	D. subspicatus	MSDS	OECD 301 B
	Acute bacteria toxicity	(> 1000 mg/l)	0,5 h	Belebtschlamm	MSDS	OECD 209
52408-84-1	Propoxylated glyceryl acrylate					
	Acute fish toxicity	LC50 5,74 mg/l	96 h	D. rerio	MSDS	OECD 203
	Acute algae toxicity	ErC50 12,2 mg/l	72 h	D. subspicatus	MSDS	OECD 201
	Acute crustacea toxicity	EC50 91,4 mg/l	48 h	D. magna	MSDS	OECD 202
	Acute bacteria toxicity	(> 1000 mg/l)		Belebtschlamm	MSDS	OECD 209
2156-97-0	lauryl acrylate					
	Acute fish toxicity	LC50 460 mg/l	96 h	L. idus	MSDS	DIN 38412-15
	Algea toxicity	NOEC 24,8 mg/l	3 d	D. subspicatus	MSDS	
	Crustacea toxicity	NOEC > 100 mg/l	21 d	D. magna	MSDS	OECD 211
162881-26-7	Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphinoxide					
	Acute fish toxicity	LC50 > 90 mg/l	96 h	B. rerio	MSDS	
	Acute algae toxicity	ErC50 > 260 mg/l	72 h	D. subspicatus	MSDS	
	Acute crustacea toxicity	EC50 > 1,175 mg/l	48 h	D. magna	MSDS	
	Acute bacteria toxicity	(> 100 mg/l)	3 h	Belebtschlamm	MSDS	
128-37-0	2,6-Di-tert-butyl-4-methylphenol					
	Acute fish toxicity	LC50 > 0,57 mg/l	96 h	D. rerio	MSDS	
	Acute algae toxicity	ErC50 > 0,4 mg/l	72 h	D. subspicatus	MSDS	
	Acute crustacea toxicity	EC50 0,48 mg/l	48 h	D. magna	MSDS	OECD 202
	Acute bacteria toxicity	(> 10000 mg/l)	3 h	Belebtschlamm	MSDS	OECD 209

12.2. Persistence and degradability

Not readily biodegradable (according to OECD criteria)

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
42978-66-5	tripropylenglycol diacrylate			
	OECD 301 B	48 %	28	MSDS
	Nicht leicht biologisch abbaubar			
52408-84-1	Propoxylated glyceryl acrylate			
	OECD 111	t1/2	417	23 °C
	OECD 301 B	79 %	28	
	Leicht biologisch abbaubar			
2156-97-0	lauryl acrylate			
	OECD 301 B	80 - 90 %	28	
	Leicht biologisch abbaubar			
162881-26-7	Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphin oxide			
		1 %	29	
128-37-0	2,6-Di-tert-butyl-4-methylphenol			
	Biologische Abbaubarkeit	< 10 %	20	OECD 301 D
	Nicht leicht biologisch abbaubar			

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
42978-66-5	tripropylenglycol diacrylate	2
52408-84-1	Propoxylated glyceryl acrylate	2,52
2156-97-0	lauryl acrylate	> 6.5
162881-26-7	Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphin 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)-phosphin oxide	< 5	C. carpio	

12.4. Mobility in soil

There are no data available on the mixture itself.

12.6. Other adverse effects

There are no data available on the mixture itself.

Further information

slightly hazardous to water (WGK 1)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

This material and its container must be disposed of as hazardous waste.
Do not allow to enter into surface water or drains.
Handle contaminated packages in the same way as the substance itself.
Recycle according to official regulations.

SECTION 14: Transport information

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Land transport (ADR/RID)

14.1. UN number: UN 3532
14.2. UN proper shipping name: Polymerizing substance, liquid, stabilized, n.o.s.
14.3. Transport hazard class(es): 4.1
14.4. Packing group: III
 Hazard label: 4.1



Classification code: PM1
 Special Provisions: 274 386
 Limited quantity: 0
 Excepted quantity: E0
 Transport category: 2
 Hazard No: 40
 Tunnel restriction code: D

Marine transport (IMDG)

14.1. UN number: UN 3532
14.2. UN proper shipping name: Polymerizing substance, liquid, stabilized, n.o.s.
14.3. Transport hazard class(es): 4.1
14.4. Packing group: III
 Hazard label: 4.1



Special Provisions: 274, 386
 Limited quantity: 0
 Excepted quantity: E0
 EmS: F-J, S-G

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3532
14.2. UN proper shipping name: Polymerizing substance, liquid, stabilized, n.o.s.
14.3. Transport hazard class(es): 4.1
14.4. Packing group: III
 Hazard label: 4.1



Special Provisions: A209
 Limited quantity Passenger: Forbidden
 Passenger LQ: Forbidden
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 459
 IATA-max. quantity - Passenger: 10 L
 IATA-packing instructions - Cargo: 459
 IATA-max. quantity - Cargo: 25 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D): 2 - clearly water contaminating

Additional information

Storage class: 10

15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required.

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.

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