

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MOIIN High Temp

Revision date: 24.10.2022

Product code: 023624

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

1.1. Product identifier

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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

Eye Dam. 1; H318
 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

(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate
 Tris (2-Hydroxyethyl) Isocyanurate Triacrylate
 2-Propenoic acid, reaction products with pentaerythritol
 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Signal word: Danger

Pictograms:



Hazard statements

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 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.
 P280 Wear protective gloves and eye/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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P310

present and easy to do. Continue rinsing.

P273

Immediately call a POISON CENTER/doctor.

Avoid release to the environment.

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)	
42594-17-2	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	55 - < 60 %
	255-901-3	
	Skin Sens. 1, Aquatic Chronic 2; H317 H411	
40220-08-4	Tris (2-Hydroxyethyl) Isocyanurate Triacrylate	20 - < 25 %
	254-843-6	
	Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H318 H317 H411	
1245638-61-2	2-Propenoic acid, reaction products with pentaerythritol	1 - < 5 %
	629-850-6	
	01-2119490003-49	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H302 H315 H318 H317 H411	
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	1 - < 5 %
	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.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
40220-08-4	254-843-6	Tris (2-Hydroxyethyl) Isocyanurate Triacrylate	20 - < 25 %
		oral: LD50 = >2000 mg/kg	
1245638-61-2	629-850-6	2-Propenoic acid, reaction products with pentaerythritol	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 540 mg/kg	
162881-26-7	423-340-5	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	1 - < 5 %
		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.

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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 mixtureCO_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****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)	

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DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
40220-08-4	Tris (2-Hydroxyethyl) Isocyanurate Triacrylate		
Worker DNEL, long-term	inhalation	systemic	1,65 mg/m ³
Worker DNEL, long-term	dermal	systemic	2,3 mg/kg bw/day
1245638-61-2	2-Propenoic acid, reaction products with pentaerythritol		
Worker DNEL, long-term	inhalation	systemic	7,35 mg/m ³
Worker DNEL, long-term	dermal	systemic	1,04 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		
40220-08-4	Tris (2-Hydroxyethyl) Isocyanurate Triacrylate	
Freshwater		0,00943 mg/l
Freshwater (intermittent releases)		0,0943 mg/l
Marine water		0,000943 mg/l
Freshwater sediment		0,62 mg/kg
Marine sediment		0,062 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,118 mg/kg
1245638-61-2	2-Propenoic acid, reaction products with pentaerythritol	
Freshwater		0,0032 mg/l
Freshwater (intermittent releases)		0,032 mg/l
Marine water		0,00032 mg/l
Freshwater sediment		0,1512 mg/kg
Marine sediment		0,01512 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,0284 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

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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.

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**

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Acute toxicity

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

ATEmix (oral, rat): > 775 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
40220-08-4	Tris (2-Hydroxyethyl) Isocyanurate Triacrylate				
	oral	LD50 >2000 mg/kg	Rat	ECHA	OECD 423
1245638-61-2	2-Propenoic acid, reaction products with pentaerythritol				
	oral	LD50 540 mg/kg	Rat	supplier SDS	OECD 401
	dermal	LD50 >2000 mg/kg	Rabbit	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 serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. ((octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate; Tris (2-Hydroxyethyl) Isocyanurate Triacrylate; 2-Propenoic acid, reaction products with pentaerythritol; 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

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.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
42594-17-2	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate					
	Acute fish toxicity	LC50 mg/l	1,65	96 h	Danio rerio (zebrafish)	ECHA OECD 203
	Acute algae toxicity	ErC50 mg/l	1,6 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA OECD 201
	Acute crustacea toxicity	EC50 mg/l	2,36	48 h	Daphnia magna (Big water flea)	ECHA OECD 202
40220-08-4	Tris (2-Hydroxyethyl) Isocyanurate Triacrylate					
	Acute fish toxicity	LC50 mg/l	9,43	96 h	Danio rerio (zebrafish)	supplier SDS/ ECHA OECD 203
	Acute algae toxicity	ErC50 mg/l	25,7		Pseudokirchneriella subcapitata	supplier SDS/ ECHA OECD 201
	Acute crustacea toxicity	EC50 mg/l	158,3	48 h	Daphnia magna (Big water flea)	supplier SDS/ ECHA OECD 202
1245638-61-2	2-Propenoic acid, reaction products with pentaerythritol					
	Acute fish toxicity	LC50 mg/l	3,2 mg/l	96 h	Cyprinus carpio (Common Carp)	supplier SDS/ ECHA OECD 203
	Acute algae toxicity	ErC50 mg/l	33 mg/l		Pseudokirchneriella subcapitata	supplier SDS OECD 201
	Acute crustacea toxicity	EC50 mg/l	13 mg/l	48 h	Daphnia magna (Big water flea)	supplier SDS/ ECHA OECD 202
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide					
	Acute fish toxicity	LC50 mg/l	> 0,090	96 h	B.Danio rerio (zebrafish)	supplier SDS
	Acute algae toxicity	ErC50 mg/l	> 0,260	72 h	Desmodesmus subspicatus	supplier SDS
	Acute crustacea toxicity	EC50 mg/l	> 1,175	48 h	Daphnia magna (Big water flea)	supplier SDS
	Crustacea toxicity	NOEC mg/l	0,008	21 d	Daphnia magna (Big water flea)	
	Acute bacteria toxicity	(EC50 mg/l)	> 100	3 h	Activated sludge	supplier SDS
128-37-0	2,6-Di-tert-butyl-4-methylphenol					
	Acute fish toxicity	LC50 mg/l	>0,57	96 h	Danio rerio (zebrafish)	supplier SDS
	Acute algae toxicity	ErC50 mg/l	> 0,4	72 h	Desmodesmus subspicatus	supplier SDS
	Acute crustacea toxicity	EC50 mg/l	0,48	48 h	Daphnia magna (Big water flea)	supplier SDS OECD 202
	Acute bacteria toxicity	(EC50 mg/l)	> 10000	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			
40220-08-4	Tris (2-Hydroxyethyl) Isocyanurate Triacrylate			
	OECD 301F	14,5-19,7%	28	
	Not readily biodegradable (according to OECD criteria)			
1245638-61-2	2-Propenoic acid, reaction products with pentaerythritol			
	OECD 301B	6-14%	28	
	Not readily biodegradable (according to OECD criteria)			
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
42594-17-2	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	4,64
40220-08-4	Tris (2-Hydroxyethyl) Isocyanurate Triacrylate	1,09-2,61
1245638-61-2	2-Propenoic acid, reaction products with pentaerythritol	3,11
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.

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.

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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
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 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.)