

Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

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

1.1. Product identifier

Castdon Polymer

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

Use of the substance/preparation

Plastic for the manufacturing and repair of dentures

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Dentamid GmbH

Max-Planck-Straße 31

DE-59423 Unna

Telephone no. +49 2303 8807-0

Fax no. +49 2303 8807-29

Information provided by / telephone Department Research & Development: Fax: +49 2303 8807-562

E-mail address of person responsible sicherheitsdatenblatt@dreve.com

for this SDS

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Aquatic Chronic 2 H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms ***



Hazard statements ***

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements ***

P273 Avoid release to the environment.



Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

P391 Collect spillage.
 P501.1 Dispose of contents/container to industrial incineration plant.
 EUH208 Contains Methyl methacrylate, monomer, stabilized Dibenzoyl peroxide May produce an allergic reaction.

2.3. Other hazards

No special hazards have to be mentioned.

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

Chemical characterization

Acrylic resin based on polymethyl methacrylate

Hazardous ingredients ***

Methyl methacrylate, monomer, stabilized

CAS No.	80-62-6				
EINECS no.	201-297-1				
Registration no.	01-2119452498-28				
Concentration	>= 0,1	<	1		%
Classification (Regulation (EC) No. 1272/2008)					
	Flam. Liq. 2				H225
	Skin Irrit. 2				H315
	Skin Sens. 1				H317
	STOT SE 3				H335

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note D

Dibenzoyl peroxide

CAS No.	94-36-0				
EINECS no.	202-327-6				
Registration no.	01-2119511472-50				
Concentration	>= 0,25	<	1		%
Classification (Regulation (EC) No. 1272/2008)					
	Org. Perox. B				H241
	Eye Irrit. 2				H319
	Skin Sens. 1				H317
	Aquatic Acute 1				H400
	Aquatic Chronic 1				H410

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	H400	M = 10
Aquatic Chronic 1	H410	M = 10
1		

SECTION 4: First aid measures

Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 13.04.2026

Print date: 13.04.2026

4.1. Description of first aid measures

General information

In case of persistent symptoms consult doctor.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse out mouth and give plenty of water to drink.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Extinguishing measures to suit surroundings

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value	10	25	°C
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Requirements for storage rooms and vessels

Store product in closed containers.

Hints on storage assembly

Do not store together with foodstuffs.

Further information on storage conditions

Keep container tightly closed and dry.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Methyl methacrylate, monomer, stabilized

Reference substance	Methyl methacrylate, monomer, stabilized	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	348,4	mg/m ³

	Methyl methacrylate, monomer, stabilized	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	208	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Lifetime	



Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

Route of exposure	inhalative	
Concentration	416	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	13,67	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	1,5	mg/cm ²
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	74,3	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	104	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Concentration	208	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	8,2	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	1,5	mg/cm ²
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	8,2	mg/kg/d



Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

Dibenzoyl peroxide

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	39	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	34,3	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,5	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	17	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	2	mg/kg/d

Predicted No Effect Concentration (PNEC)**Methyl methacrylate, monomer, stabilized**

Reference substance	Methyl methacrylate, monomer, stabilized	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,94	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,094	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	1,48	mg/kg
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	10,2	mg/kg



Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	10	mg/l	
Type of value	PNEC		
Type	Man via the environment		
Concentration	8,2	mg/kg/d	
Type of value	PNEC		
Type	Marine sediment		
Concentration	1,2	mg/kg	
Dibenzoyl peroxide			
Type of value	PNEC		
Type	Freshwater		
Concentration	0,02	µg/l	
Type of value	PNEC		
Type	Saltwater		
Concentration	0,002	µg/l	
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	0,35	mg/l	
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	0,013	mg/kg	
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,001	mg/kg	
Type of value	PNEC		
Type	Soil		
Concentration	0,003	mg/kg	

8.2. Exposure controls

General protective and hygiene measures

Observe the usual precautions for handling chemicals.

Respiratory protection

Use suitable respiratory protective device in case of insufficient ventilation; Dust mask

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

Appropriate Material Butyl rubber

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.



Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Powder	
Colour	pink	
Odour	characteristic	
Melting point		
Value	appr. 110	°C
Freezing point		
Remarks	not determined	
Boiling point or initial boiling point and boiling range		
Remarks	not determined	
Flammability		
evaluation	not determined	
Upper and lower explosive limits		
Remarks	not determined	
Flash point		
Remarks	Not applicable	
Auto-ignition temperature		
Value	> 400	°C
Decomposition temperature		
Remarks	No decomposition if used as prescribed.	
pH value		
Remarks	not determined	
Viscosity		
Remarks	not determined	
Solubility(ies)		
Remarks	not determined	
Partition coefficient n-octanol/water (log value)		
Remarks	not determined	
Vapour pressure		
Remarks	not determined	
Density and/or relative density		
Value	1,16	g/cm ³
Relative vapour density		
Remarks	not determined	
9.2. Other information		
Odour threshold		
Remarks	not determined	
Evaporation rate (ether = 1) :		
Remarks	not determined	
Solubility in water		
Remarks	virtually insoluble	



Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

Explosive properties

evaluation no

Oxidising properties

Remarks not determined

Bulk densityValue 700 to 750 kg/m³**Other information**

None known

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

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

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

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

Acute oral toxicity (Components)**Methyl methacrylate, monomer, stabilized**Species rat
LD50 appr. 7900 mg/kg**Dibenzoyl peroxide**Species mouse
LD0 > 2000 mg/kg
Method OECD 401**Acute dermal toxicity**

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

Acute dermal toxicity (Components)**Methyl methacrylate, monomer, stabilized**Species rabbit
LD50 > 5000 mg/kg
Method OECD 402**Acute inhalational toxicity**



Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

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

Acute inhalative toxicity (Components)**Methyl methacrylate, monomer, stabilized**

Species	rat		
LC50	29,8		mg/l
Duration of exposure	4	h	
Administration/Form	Vapors		

Dibenzoyl peroxide

Species	rat (male)		
LC0	24,3		mg/l
Duration of exposure	4	h	
Administration/Form	Dust/Mist		
Method	OECD 403		

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)**Methyl methacrylate, monomer, stabilized**

Species	Human
evaluation	irritant

Serious eye damage/irritation

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

Serious eye damage/irritation (Components)**Dibenzoyl peroxide**

Species	rabbit
evaluation	Moderately irritating

Sensitization

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

Sensitization (Components)**Methyl methacrylate, monomer, stabilized**

Route of exposure	dermal
Species	mouse
evaluation	sensitizing
Method	OECD 429

Dibenzoyl peroxide

Route of exposure	dermal
Species	mouse
evaluation	sensitizing
Method	OECD 429

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)**Single exposure**

Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

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

Repeated exposure

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

Specific Target Organ Toxicity (STOT) (Components)**Methyl methacrylate, monomer, stabilized****Single exposure**

evaluation May cause respiratory irritation.
Route of exposure inhalative

Aspiration hazard

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

11.2. Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

Other information

Conditional of manufacturing there is a content of dibenzoylperoxide of ma. 0,5%.

SECTION 12: Ecological information

12.1. Toxicity**General information**

not determined

Fish toxicity (Components)**Methyl methacrylate, monomer, stabilized**

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	>	79	mg/l
Duration of exposure		96	h

Methyl methacrylate, monomer, stabilized

Species	zebra fish (<i>Brachydanio rerio</i>)		
NOEC		9,4	mg/l
Duration of exposure		35	d
Method	OECD 210		

Dibenzoyl peroxide

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50		0,06	mg/l
Duration of exposure		96	h
Method	OECD 203		

Daphnia toxicity (Components)**Methyl methacrylate, monomer, stabilized**

Species	Daphnia magna		
EC50		69	mg/l
Duration of exposure		48	h

Methyl methacrylate, monomer, stabilized

Species	Daphnia magna		
NOEC		37	mg/l
Duration of exposure		21	d
Method	OECD 211		

Dibenzoyl peroxide



Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

Species	Daphnia magna		
EC50	0,11		mg/l
Duration of exposure	48	h	
Method	OECD 202		

Dibenzoyl peroxide

Species	Daphnia magna		
EC10	0,001		mg/l
Duration of exposure	21	d	
Method	OECD 211		

Algae toxicity (Components)**Methyl methacrylate, monomer, stabilized**

Species	Pseudokirchneriella subcapitata		
EC50	> 110		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Dibenzoyl peroxide

Species	Pseudokirchneriella subcapitata		
ErC50	0,071		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Bacteria toxicity (Components)**Methyl methacrylate, monomer, stabilized**

Species	activated sludge		
EC50	100		mg/l
Duration of exposure	14	d	

Dibenzoyl peroxide

Species	activated sludge		
EC50	35		mg/l
Duration of exposure	30	min	

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**Dibenzoyl peroxide**

Value	71		%
Duration of test evaluation	28	d	
	Readily biodegradable (according to OECD criteria)		

Methyl methacrylate, monomer, stabilized

Value	94		%
Duration of test evaluation	14	d	
	Readily biodegradable (according to OECD criteria)		
Method	OECD 301 C		

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)**Methyl methacrylate, monomer, stabilized**

Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

log Pow	1,38	
Temperature	20	°C
Method	OECD 107	

Dibenzoyl peroxide

log Pow	3,2	
Temperature	22	°C

12.4. Mobility in soil**General information**

not determined

Mobility in soil (Components)**Methyl methacrylate, monomer, stabilized**

Immobile

12.5. Results of PBT and vPvB assessment**General information**

not determined

Results of PBT and vPvB assessment

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information**

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code 07 02 13 waste plastic

Must not be disposed together with household garbage.

Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)		-	-
Label			
14.4. Packing group		-	-

SECTION 15: Regulatory information ***

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

Ingredients with restrictions according to Annex XVII Regulation (EU) No. 1907/2006 ***

Methyl methacrylate, monomer, stabilized

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry No. 3

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry No. 40

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry-No. 75

Dibenzoyl peroxide

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry-No. 75

Other information

All components are contained in the TSCA inventory or exempted.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Aquatic Chronic 2

H411

Calculation method

Hazard statements listed in Chapter 2/3

H225

Highly flammable liquid and vapour.

H241

Heating may cause a fire or explosion.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.



Trade name: Castdon Polymer

Substance number: 1646

Version: 2 / GB

Date revised: 13.04.2026

Replaces Version: 1 / GB

Print date: 13.04.2026

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.

CLP categories listed in Chapter 2/3

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Org. Perox. B	Organic peroxide, Type B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.