



Trade name: Castdon Polymer

Substance number: 1646

Version: 1 / GB

Date revised: 07.03.2023

Replaces Version: - / GB

Print date: 24.03.2023

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 Otoplastik GmbH

Max-Planck-Straße 31

59423 Unna

Telephone no.

+49 2303 8807-0

Fax no.

+49 2303 8807-29

Information provided

Department Research & Development: Fax: +49 2303 8807-562

by / telephone

E-mail address of

sicherheitsdatenblatt@dreve.de

person responsible

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

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

EUH208 Contains

Methyl methacrylate monomer, stabilized, Dibenzoyl peroxide, May produce an allergic reaction.

Supplemental information

EUH210

Safety data sheet available on request.

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



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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	>= 0,1	<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Org. Perox. B			H241
	Eye Irrit. 2			H319
	Skin Sens. 1			H317

SECTION 4: First aid measures**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.

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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.

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.

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

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



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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	208	mg/m ³
Type of value	Methyl methacrylate monomer, stabilized Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	13,7	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Concentration	416	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	0,0015	mg/cm ²
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/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	8,2	mg/kg/d
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	

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Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	74,3	mg/m ³

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
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

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.



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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		
not determined		
Upper and lower explosive limits		
Remarks	not determined	
Flash point		
Remarks	Not applicable	
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	



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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**

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

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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	24,03		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.
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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.
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Sensitization

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

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

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

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT)**Single exposure**

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

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT) (Components)**Methyl methacrylate monomer, stabilized**



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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

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

Dibenzoyl peroxide

Species	Daphnia magna		
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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	0,0711		mg/l
Duration of exposure	72	h	
Method	OECD 201		

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

Species	activated sludge		
NOEC	> 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	28	d	
evaluation	Readily biodegradable (according to OECD criteria)		

Ready degradability (Components)**Methyl methacrylate monomer, stabilized**

Value	94		%
Duration of test	14	d	

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**

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

Dibenzoyl peroxide

log Pow	3,2		
Temperature	22	°C	



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12.4. Mobility in soil

General information

not determined

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 discharge product unmonitored into the environment.

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

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN 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		-	-

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SECTION 15: Regulatory information

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 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.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

CLP categories listed in Chapter 3

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.