

Trade name: Castdon Monomer

Substance number: 1648 Version: 1 / GB Date revised: 06.03.2023

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 Monomer

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 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.com

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

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

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

Flam. Liq. 2 H225 Skin Irrit. 2 H315 Skin Sens. 1 H317 STOT SE 3 H335

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





Signal word

Danger

Hazard statements



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%

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTRE or doctor if you feel unwell.

P501.1 Dispose of contents/container to industrial incineration plant.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Methyl methacrylate monomer, stabilized; Tetramethylene dimethacrylate

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Liquid based on methacrylate acid ester, containing an activator

Hazardous ingredients

Methyl methacrylate monomer, stabilized

CAS No. 80-62-6 EINECS no. 201-297-1

Registration no. 01-2119452498-28
Concentration >= 50

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

Tetramethylene dimethacrylate

CAS No. 2082-81-7 EINECS no. 218-218-1

Registration no. 01-2119967415-30

Concentration >= 10 < 25 %

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

Skin Sens. 1B H317



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. Seek medical advice immediately.

After skin contact

Wash off immediately with soap and water. Take medical treatment.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

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

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case the product spills into sewage waters, immediately inform the authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Do not pick up with the help of saw-dust or other combustible substances. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

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

Avoid formation of aerosols. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. Avoid impact, friction and electro-static loading; risk of ignition!. Use explosion-proof apparatus and fittings. Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store with strong oxidizing agents.

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place. Keep in a cool place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Methyl methacrylate monomer, stabilized

List TRGS 900 Type AGW



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Value 210 mg/m³ 50 ppm(V) Maximum limit value: 2(I); Pregnancy group: Y; Status: Jan 2006; Remarks: DFG

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/m³

Methyl methacrylate monomer, stabilized

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 13,7 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/m³

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/cm²

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/m³



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Type of value Derived No Effect Level (DNEL)

Reference group Consumer Duration of exposure Long term inhalative Route of exposure Mode of action Systemic effects

Concentration 74,3 mg/m³

Tetramethylene dimethacrylate

Type of value Derived No Effect Level (DNEL)

Reference group Worker Duration of exposure Long term Route of exposure inhalative Systemic effects Mode of action

mg/m³ Concentration 14,5

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 4,2 mg/kg/d

Derived No Effect Level (DNEL) Type of value

Reference group Consumer Duration of exposure Long term Route of exposure inhalative Mode of action

Systemic effects

Concentration 4,3 mg/m³

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

mg/kg Concentration 2.5

Type of value Derived No Effect Level (DNEL)

Reference group Consumer Duration of exposure Long term Route of exposure dermal

Systemic effects Mode of action

Concentration 2,5 mg/kg

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



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Concentration 1,48 mg/kg

Type of value **PNEC**

Freshwater sediment Type

Concentration 10.2

mg/kg

Type of value **PNEC**

Sewage treatment plant (STP) Type

Concentration mg/l

PNEC Type of value

Type Man via the environment

Concentration 8,2 mg/kg/d

Type of value **PNEC**

Type Marine sediment

Concentration 1,2 mg/kg

Tetramethylene dimethacrylate

Type of value **PNEC** Type Freshwater

Concentration 0,043 mg/l

Type of value **PNEC** Type Saltwater

Concentration 0,004 mg/l

Type of value **PNEC**

Type Water (intermittent release)

Concentration 0,098 mg/l

PNEC Type of value

Type Sewage treatment plant (STP)

Concentration 2 mg/l

PNEC Type of value

Type Freshwater sediment

Concentration 3.12 mg/kg

Type of value **PNEC**

Marine sediment Type

Concentration 0,312 mg/kg

PNEC Type of value Type Soil

Concentration 0,573 mg/kg

8.2. Exposure controls

General protective and hygiene measures

Do not smoke during work time. Hold eye wash fountain available. Hold emergency shower available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.



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Hand protection

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

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Appropriate Material Butyl rubber Hand protection must comply with EN 374.

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state liquid colourless Odour ester-like

Melting point

Value -48 °C

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Value 101 °C

Flammability

Not applicable

Upper and lower explosive limits

Lower explosion limit 2,1 %(V)
Upper explosion limit 12,5 %(V)

Flash point

Value 10 °C Method closed cup

Ignition temperature

Value 430 °C

Decomposition temperature

Remarks not determined

pH value

Remarks not determined

Viscosity

dvnamic

Remarks not determined

Solubility(ies)

Remarks not determined Partition coefficient n-octanol/water (log value)

Remarks not determined



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Vapour pressure

Value 47 hPa

Temperature 20 °C

Density and/or relative density

Value 0,95 g/cm³

Temperature 20 °C

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 partially miscible

Self Accelerating Decomposition / Polymerization Temperature (SADT/SAPT)

Value > 50 °C

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

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

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008



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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

Tetramethylene dimethacrylate

Species rat

LD50 10066 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.

Acute inhalative toxicity (Components)

Methyl methacrylate monomer, stabilized

Species rat

LC50 29,8 mg/l

Duration of exposure 4 h

Administration/Form Vapors

Skin corrosion/irritation

evaluation irritant

Remarks The classification criteria are 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.

Sensitization

evaluation May cause sensitization by skin contact. Remarks The classification criteria are met.

Sensitization (Components)

Methyl methacrylate monomer, stabilized

Route of exposure dermal Species mouse evaluation sensitizing Method OECD 429

Tetramethylene dimethacrylate

Route of exposure dermal
Species mouse
evaluation sensitizing
Method OECD 429



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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

Remarks The classification criteria are met. evaluation May cause respiratory irritation.

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

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

Fish toxicity (Components)

Methyl methacrylate monomer, stabilized

Species rainbow trout (Oncorhynchus mykiss)
LC50 > 79 mg/l

Duration of exposure 96 h

Methyl methacrylate monomer, stabilized

Species zebra fish (Brachydanio rerio)

NOEC 9,4 mg/l

Duration of exposure 35 d

Method OECD 210



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Tetramethylene dimethacrylate

Species golden orfe (Leuciscus idus)

LC50 32,5 mg/l

Duration of exposure 48 h

Method DIN 38412 / Part 15

Remarks Test conducted with a similar formulation.

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

Tetramethylene dimethacrylate

Species Daphnia magna

EC10 7,51 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

Tetramethylene dimethacrylate

Species Scenedesmus subspicatus

EC50 9,79 mg/l

Duration of exposure 72 h

Method OECD 201

Bacteria toxicity (Components)

Tetramethylene dimethacrylate

Species activated sludge

NOEC 20 mg/l

Duration of exposure 28 d

Methyl methacrylate monomer, stabilized

Species activated sludge

NOEC > 100 mg/l

Duration of exposure 14 d

12.2. Persistence and degradability

General information

not determined

Biodegradability (Components)

Tetramethylene dimethacrylate

Value 84 %

Duration of test 28 d

evaluation Readily biodegradable (according to OECD criteria)

Ready degradability (Components)



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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

Tetramethylene dimethacrylate

log Pow 3,1

Temperature 20 °C

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 product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the envrionment

The product does not contain a substance that has 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. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 07 01 04* other organic solvents, washing liquids and mother liquors

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 in agreement with the regional waste disposal



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company.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	1247	1247	1247
14.2. UN proper shipping name	METHYL METHACRYLATE MONOMER, STABILIZED, Solution	METHYL METHACRYLATE MONOMER, STABILIZED, Solution	METHYL METHACRYLATE MONOMER, STABILIZED, Solution
14.3. Transport hazard class(es)	3	3	3
Label		***	3
14.4. Packing group	II	II	II
Limited Quantity	11		
Transport category	2		
14.5. Environmental hazards		no	
	-		-
Tunnel restriction code	D/E		

SECTION 15: Regulatory information

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

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

Hazard statements listed in Chapter 3

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.



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H335 May cause respiratory irritation.

CLP categories listed in Chapter 3

Flam. Liq. 2 Flammable liquid, Category 2
Skin Irrit. 2 Skin irritation, Category 2
Skin Sens. 1 Skin sensitization, Category 1
Skin Sens. 1B Skin sensitization, Category 1B

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.