

Safety Data Sheet

conforms to Regulation (EC) No. 1907/2006

Demotec Easy Bloc - Liquid component

Revision date: 24.04.2023

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

1.1. Product identifier

Demotec Easy Bloc - Liquid component

Product group: Liquid component
 UFI: STQ1-S403-100A-DAHY

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

Use of the substance/mixture

Plastic (liquid component) for hoof treatment in cattle.

1.3. Details of the supplier of the safety data sheet

| | | |
|-----------------|--------------------|-------------------------------|
| Company name: | Demotec Demel e.K. | |
| Street: | Brentanostraße 22 | |
| Place: | D-61130 Nidderau | |
| Telephone: | +49 (0)6187-905670 | Telefax: +49 (0)6187-9056711 |
| e-mail: | demotec@demotec.de | |
| Contact person: | Alexander Demel | Telephone: +49 (0)6187-905670 |
| e-mail: | demotec@demotec.de | |
| Internet: | www.demotec.de | |

1.4. Emergency telephone number: Berlin +49 (0)30 - 30686700

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

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

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Methyl methacrylate
 1,4-Butandiol dimethacrylate

Signal word: Danger

Pictograms:



Hazard statements

| | |
|------|--------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |

Precautionary statements

| | |
|------|--|
| P261 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|------|--|

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| | |
|-----------|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection |
| P302+P352 | IF ON SKIN: Wash with plenty of Water and soap. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P370+P378 | In case of fire: Use foam, extinguishing powder, carbon dioxide (CO ₂) to extinguish. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P501 | Dispose of contents/container as hazardous waste - in accordance with local and national legislation – to a suitable, approved incinerator for combustible organic waste. |

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture based on methyl methacrylate.

Hazardous components

| CAS No | Chemical name | | | Quantity |
|-----------|---|----------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 80-62-6 | Methyl methacrylate | | | 80 - < 85 % |
| | 201-297-1 | | 01-2119452498-28 | |
| | Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335 | | | |
| 2082-81-7 | 1,4-Butandiol dimethacrylate | | | 10 - < 15 % |
| | 218-218-1 | | 01-2119967415-30 | |
| | Skin Sens. 1; H317 | | | |

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 | | |
| 80-62-6 | 201-297-1 | Methyl methacrylate | 80 - < 85 % |
| | inhalation: LC50 = 29,8 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg | | |
| 2082-81-7 | 218-218-1 | 1,4-Butandiol dimethacrylate | 10 - < 15 % |
| | dermal: LD50 = > 3000 mg/kg; oral: LD50 = > 10000 mg/kg | | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately. If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.

After inhalation

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

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

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After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water.

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

Causes skin irritation. May cause respiratory irritation. May cause an allergic skin reaction.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. Can polymerise exothermically if heated, exposed to air, sunlight or by addition or free radical initiators. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Wear protective gloves and eye/face protection. Avoid breathing dust. See section: 8.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

When using do not eat, drink, smoke, sniff. Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.

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Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Flammable vapours can accumulate in head space of closed systems. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Further information on handling

Caution! Transport usually takes place at temperatures above the flash point.

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.
Protect from direct sunlight.

Hints on joint storage

Do not store together with: oxygen-rich, oxidizing material. Pyrophoric or self-heating substances.

Further information on storage conditions

Keep away from heat.

7.3. Specific end use(s)

Plastic (liquid component) for hoof treatment in cattle.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|---------------------|-----|-------------------|-----------|---------------|--------|
| 80-62-6 | Methyl methacrylate | 50 | 208 | | TWA (8 h) | WEL |
| | | 100 | 416 | | STEL (15 min) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|------------------------|---------------------|----------------|--------|-----------------------|
| 80-62-6 | Methyl methacrylate | | | |
| Worker DNEL, long-term | | inhalation | | 208 mg/m ³ |
| Worker DNEL, long-term | | dermal | | 17 mg/kg bw/day |

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

Wear suitable protective gloves. To protect against splashes: butyl; EN 374. To protect against immersion: butyl; 0.7 mm or thicker, EN 374. The suitability of gloves should be agreed with the manufacturer. Change gloves in the event of contamination or if the breakthrough time is exceeded. Resistance of the glove material: see information from the glove manufacturer.

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Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

Wear suitable respiratory protection if technical measures are inadequate or not available and exposure is to be expected that exceeds the DNEL (derived exposure level below which the substance does not cause any harm to human health). A suitable breathing mask with filter type A (EN141 or EN405) is recommended. A self-contained breathing apparatus may be necessary if particularly high vapor concentrations are formed.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|----------------|
| Physical state: | Liquid |
| Colour: | colourless |
| Odour: | characteristic |

Changes in the physical state

| | |
|---|----------|
| Melting point/freezing point: | -48 °C |
| Boiling point or initial boiling point and boiling range: | 100,5 °C |
| Flash point: | 10 °C |

Flammability

| | |
|----------------------------|----------------|
| Solid/liquid: | not applicable |
| Gas: | not applicable |
| Lower explosion limits: | 2,1 vol. % |
| Upper explosion limits: | 12,5 vol. % |
| Auto-ignition temperature: | 421 °C |

Self-ignition temperature

| | |
|------------------------------------|----------------|
| Solid: | not applicable |
| Gas: | not applicable |
| Decomposition temperature: | not determined |
| pH-Value: | not determined |
| Viscosity / dynamic: (at 20 °C) | 0,53 mPa·s |
| Water solubility: (at 20 °C) | 12,5 g/L |

Solubility in other solvents

| | |
|--|-------------------------|
| not determined | |
| Partition coefficient n-octanol/water: | 1,38 |
| Vapour pressure: (at 20 °C) | 36 hPa |
| Density (at 15,5 °C): | 0,949 g/cm ³ |
| Relative vapour density: (at 20 °C) | 3,5 |

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties
Not oxidising.

Other safety characteristics

Solid content: not determined

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Evaporation rate: not determined

Further Information

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable, Vapours can form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

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 sources of heat (e.g. hot surfaces), sparks and open flames. Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators. Protect from direct sunlight.

10.5. Incompatible materials

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

ATEmix tested

| | Dose | Species | Source |
|---------------------------------|--------------|---------|--------|
| LD50, oral | 7870 mg/kg | Rat | |
| LD50, dermal | > 5000 mg/kg | Rabbit | |
| LC50, inhalation (vapour) (4 h) | 78 mg/l | Rat | |

| CAS No | Chemical name | | | | |
|-----------|------------------------------|--------------------|---------|----------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 80-62-6 | Methyl methacrylate | | | | |
| | oral | LD50 >5000 mg/kg | Rat | OECD 401 | |
| | dermal | LD50 >5000 mg/kg | Rabbit | | |
| | inhalation vapour | LC50 29,8 mg/l | Rat | | |
| 2082-81-7 | 1,4-Butandiol dimethacrylate | | | | |
| | oral | LD50 > 10000 mg/kg | Rat | | |
| | dermal | LD50 > 3000 mg/kg | Rabbit | | |

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (Methyl methacrylate; 1,4-Butandiol dimethacrylate)

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Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause respiratory irritation. (Methyl methacrylate)

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

Acute (short-term) fish toxicity

| CAS No | Chemical name | | | | | |
|-----------|------------------------------|------------------|-----------|-------------------------------------|----------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 80-62-6 | Methyl methacrylate | | | | | |
| | Acute fish toxicity | LC50 > 79 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | OECD 203 | |
| | Acute algae toxicity | ErC50 > 110 mg/l | 72 h | Selenastrum capricornutum | OECD 201 | |
| | Acute crustacea toxicity | EC50 69 mg/l | 48 h | Daphnia magna (Big water flea) | OECD 202 | |
| | Crustacea toxicity | NOEC 37 mg/l | 21 d | Daphnia magna (Big water flea) | OECD 202 | |
| 2082-81-7 | 1,4-Butandiol dimethacrylate | | | | | |
| | Acute fish toxicity | LC50 32,5 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | | |
| | Acute crustacea toxicity | EC50 7,51 mg/l | 48 h | Daphnia magna (Big water flea) | OECD 211 | |
| | Crustacea toxicity | NOEC 7,51 mg/l | | Selenastrum capricornutum | | |

12.2. Persistence and degradability

Biodegradable.

12.3. Bioaccumulative potential

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|-----------|------------------------------|---------|
| 80-62-6 | Methyl methacrylate | 1,38 |
| 2082-81-7 | 1,4-Butandiol dimethacrylate | 3,1 |

12.4. Mobility in soil

Mobility in soil: No adsorption in soil or sediment.

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.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|---|---|
| <u>14.1. UN number or ID number:</u> | UN 1247 |
| <u>14.2. UN proper shipping name:</u> | METHYL METHACRYLATE MONOMER, STABILIZED |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| <u>14.4. Packing group:</u> | II |
| Hazard label: | 3 |
| Classification code: | F1 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| Transport category: | 2 |
| Hazard No: | 339 |
| Tunnel restriction code: | D/E |

Other applicable information (land transport)

SAPT: > 60 °C

Inland waterways transport (ADN)

| | |
|---|---|
| <u>14.1. UN number or ID number:</u> | UN 1247 |
| <u>14.2. UN proper shipping name:</u> | METHYL METHACRYLATE MONOMER, STABILIZED |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| <u>14.4. Packing group:</u> | II |
| Hazard label: | 3 |
| Classification code: | F1 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |

Other applicable information (inland waterways transport)

SAPT: > 60 °C

Marine transport (IMDG)

| | |
|---|---|
| <u>14.1. UN number or ID number:</u> | UN 1247 |
| <u>14.2. UN proper shipping name:</u> | METHYL METHACRYLATE MONOMER, STABILIZED |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| <u>14.4. Packing group:</u> | II |
| Hazard label: | 3 |
| Special Provisions: | - |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| EmS: | F-E, S-D |

Other applicable information (marine transport)

SAPT: > 60 °C

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Air transport (ICAO-TI/IATA-DGR)

| | | |
|--|---|------|
| 14.1. UN number or ID number: | UN 1247 | |
| 14.2. UN proper shipping name: | METHYL METHACRYLATE MONOMER, STABILIZED | |
| 14.3. Transport hazard class(es): | 3 | |
| 14.4. Packing group: | II | |
| Hazard label: | 3 | |
| Limited quantity Passenger: | 1 L | |
| Passenger LQ: | Y341 | |
| Excepted quantity: | E2 | |
| IATA-packing instructions - Passenger: | | 353 |
| IATA-max. quantity - Passenger: | | 5 L |
| IATA-packing instructions - Cargo: | | 364 |
| IATA-max. quantity - Cargo: | | 60 L |

Other applicable information (air transport)

SAPT: > 60 °C

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Combustible liquids.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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 40

| | |
|---|-----------------------|
| 2010/75/EU (VOC): | 80 % (759,2 g/l) |
| 2004/42/EC (VOC): | 80 % (759,2 g/l) |
| Information according to 2012/18/EU (SEVESO III): | P5c FLAMMABLE LIQUIDS |

Additional information

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|---------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Skin Irrit. 2; H315 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |
| STOT SE 3; H335 | Calculation method |

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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