

# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)



Trade name: METHYL METHACRYLATE with DIMETHYL TOLUIDIN

Version: 3.0 / EN

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Print date: 19.09.2018

Revision date: 19.09.2018

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

### 1.1 Product identifier:

#### **METHYL METHACRYLATE with DIMETHYL TOLUIDIN**

Monomer mixture based on methacrylic acid esters (containing activator)

##### **Substances**

- Methyl methacrylate 60-100% (**CAS** 80-62-6)(**EC** 201-297-1)(**REACH** 01-2119452498-28)
- 2-Hydroxyethyl methacrylate 15-40% (**CAS** 868-77-9)(**EC** 212-782-2)(**REACH** 01-2119490169-29)
- N,N-Dimethyl-p-toluidine 1-5% (**CAS** 99-97-8)(**EC** 202-805-4)(**REACH** 01-2119937766-23)

**Trade name / designation** Methyl Methacrylate

##### **Hazard components for labelling**

- Methyl methacrylate 60-100%
- 2-Hydroxyethyl methacrylate 15-40%
- N,N-Dimethyl-p-toluidine 1-5%

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

#### **Relevant identified uses:**

Adhesive in application of hoof care products

#### **Uses advised against:**

None known

### 1.3 Details of the supplier of the safety data sheet:

#### **Supplier:**

Giltspur Scientific Ltd  
6-8 Avondale Industrial Estate  
Ballyclare  
Northern Ireland  
BT39 9AU

+44 (0) 2893 322040  
[info@giltspurscientific.com](mailto:info@giltspurscientific.com)

### 1.4 EMERGENCY TELEPHONE NUMBER:

Evonik  
Chemische Fabrik  
d-64275 Darmstadt

Telephone - +49 61151 1801  
Emergency - +49 6151 18 4342

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture:

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

H225 Flam. Liq., H315 Skin Irrit., H317 Skin Sens.

#### Additional information:

Full text of H- phrases: see SECTION 16.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

18ml

METHYL METHACRYLATE  
with  
DIMETHYL TOLUIDIN

**Giltspur**  
Scientific Ltd.



No smoking.  
When using wear gloves  
or barrier creams.  
Immiscible with water  
Irritating to eyes, respiratory  
system and skin.



May cause skin sensitisation  
by skin contact.  
Keep container closed tightly.

#### Hazard statements:

H225 Highly flammable liquid and vapour

H332 Harmful if inhaled

H312 Harmful in contact with skin

H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H335 May cause respiratory irritation

#### Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces — No smoking

P262 Do not get in eyes, on skin, or on clothing

P280 Wear protective gloves (or barrier cream) and eye protection

P281 Use personal protective equipment as required

P233 Keep container tightly closed

P260 Do not breathe vapours

P271 Use only outdoors or in a well-ventilated area

P285 In case of inadequate ventilation wear respiratory protection

### 2.3 Other hazards

Polymerisation with heat evolution may occur in the presence of radical forming substances (eg peroxides), reducing substances, and/or heavy metal ions

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Not applicable

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## 3.2 Mixtures

### Description of the mixture:

Solution of Methyl methacrylate, 2-Hydroxyethyl methacrylate and N,N-Dimethyl-p-toluidine

### Hazardous ingredients

| Substance name              | CAS No.  | EC No.    | REACH No.        | Concentration | Classification according Regulation (EC) No. 1272 [CLP] |
|-----------------------------|----------|-----------|------------------|---------------|---|
| Methyl methacrylate         | 80-62-6  | 201-297-1 | 01-2119452498-28 | 60-100%       | H225, H315, H317, H335, H370                            |
| 2-Hydroxyethyl methacrylate | 868-77-9 | 212-782-2 | 01-2119490169-29 | 15-40%        | H225, H302, H315, H317, H319, H335, H351                |
| N,N-Dimethyl-p-toluidine    | 99-97-8  | 202-805-4 | 01-2119937766-23 | 1-5%          | H301, H330, H331, H351, H373, H412                      |

### Additional information:

Full text of H-phrases: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove soiled, soaked clothing immediately

Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.

#### Following inhalation

Remove the casualty into fresh air and keep him/her calm

#### Following skin contact

In case of contact with the skin wash off immediately with soap and water. If skin irritation occurs, seek medical attention.

#### Following eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

#### Following ingestion

Summon medical assistance immediately.

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

Irritating to eyes, respiratory system and skin

May cause sensitisation by skin contact

Harmful by inhalation

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

Summon medical assistance immediately following ingestion

Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Foam

Dry powder

Carbon dioxide

Water SPRAY jet

#### Unsuitable extinguishing media

Do NOT extinguish with full water jet

### 5.2 Special hazards arising from the substance or mixture

May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition

### 5.3 Advice for fire-fighters

In the event of fire, cool the endangered containers with water.

Wear self-contained breathing apparatus.

Do not discharge into the drains/ surface waters/ ground water.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### **For non-emergency personnel**

Ensure adequate ventilation

P284 Wear respiratory protection

P281 Use personal protective equipment as required

#### **For emergency responders**

Ensure adequate ventilation

P284 Wear respiratory protection

P281 Use personal protective equipment as required

### 6.2 Environmental precautions

Do not discharge into the drains/ surface waters/ ground water



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## 6.3 Methods and material for containment and cleaning up

Larger quantities – remove mechanically (by pumping)

Smaller quantities and/or residues – absorb with absorbent material eg. sand or sawdust

Dispose of in accordance with regulations

## 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

P233 Keep containers tightly closed.

P271 Use only outdoors or in a well-ventilated area

P285 In case of inadequate ventilation wear respiratory protection

P210 Keep away from heat/sparks/open flames/hot surfaces — No smoking

P243 Take precautionary measures against static discharges

In the event of fire, cool the endangered containers with water

### Advice on general occupational hygiene

Store work clothing separately

Remove soiled or soaked clothing immediately

Follow the usual good standards of occupational hygiene

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### 7.2 Conditions for safe storage, including any incompatibilities

Keep only original container at a temperature not exceeding 30°C.

Fill the container by approximately 80% only, as oxygen (air) is required for stabilisation.

Keep out of light.

### 7.3 Specific end uses

Adhesive in application of hoof care products.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

##### -Methyl methacrylate

Long-term exposure limit (8-hour TWA): WEL 50ppm 208mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100ppm 416mg/m<sup>3</sup>

\*WEL= Workplace Exposure Limit\*

#### DNEL

Industry- Inhalation: 1.35mg/m<sup>3</sup>

Industry- Skin contact: 1.19mg/kg

Consumer- Inhalation: 0.34mg/m<sup>3</sup>

Consumer- Skin contact: 0.29mg/kg

Consumer- Ingestion: 2.37mg/kg

#### PNEC

Fresh water; 0.153mg/l

Marine water; 0.0153mg/l

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Soil; 18.68mg/kg dry weight  
Fresh water sediment; 45.38mg/kg dry weight  
Marine sediment; 45.38mg/kg dry weight  
STP: 4.29mg/l

## -N,N-Dimethyl-p-toluidine

**DNEL** Industry- Inhalation; Long term: 210mg/m<sup>3</sup>  
Industry- Dermal; Long term: 13.67mg/kg/day  
Industry- Dermal; Short term: 1500mg/m<sup>3</sup>  
Consumer- Inhalation; Long term: 74.3mg/m<sup>3</sup>  
Consumer- Dermal; Long term: 8.2mg/kg/day  
Consumer- Dermal; Short term: 1500mg/m<sup>3</sup>

**PNEC** Fresh water; 0.94mg/l  
Marine water; 0.094mg/l  
Soil; 1.47mg/kg  
Sediment; 5.74mg/kg  
STP: 10mg/l

## - 2-Hydroxyethyl methacrylate

Data lacking.

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## 8.2 Exposure controls

|                               |   |
|-------------------------------|---|
| <b>Protective measures</b>    | Do not inhale vapours<br>Avoid contact with eyes  |
| <b>Hygiene measures</b>       | Store work clothing separately<br>Remove soiled or soaked clothing immediately<br>Follow the usual good standards of occupational hygiene |
| <b>Respiratory Protection</b> | If ventilation insufficient, wear respiratory protection<br>Short term- filter apparatus, Filter A  |
| <b>Hand protection</b>        | Rubber gloves   |
| <b>Eye protection</b>         | Goggles   |
| <b>Body protection</b>        | When handling larger quantities: face mask, rubber boots and rubber apron   |

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## SECTION 9. Physical and chemical properties



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## 9.1 Information on basic physical and chemical properties

**Physical state:** Liquid

**Colour:** Colourless

**Odour:** Strong

**Freezing point:** below -25°C

**Boiling point:** Not available

**pH:** Not available

**Evaporation rate:**

**Flammability:** Highly flammable

**Upper/ lower flammability or explosive limits:** Not available

**Vapour pressure:** Not available

**Vapour density:** Not available

**Relative density:** Not available

**Solubility:** Not available

**Partition coefficient:** Not available

**Auto-ignition temperature:** Not available

**Decomposition temperature:** Not available

**Viscosity:** Not available

**Explosive properties:** Not available

**Oxidising properties:** Not available

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## 9.2 Other information:

**Flash Point:** +8°C

**Sustaining Combustion:** Not available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions.

The following materials may react with the product: Acids. Azo, diazo, hydrazine comps. Alkalis. Oxidising materials.

### 10.2 Chemical stability

Stable at normal ambient temperatures and when used as recommended

### 10.3 Possibility of hazardous reactions

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

### 10.4 Conditions to avoid:

Avoid excessive heat for prolonged periods of time. Avoid flames and other sources of ignition.

### 10.5 Incompatible materials:

Materials to avoid: strong alkalis, strong acids, peroxides, strong oxidising agents.

### 10.6 Hazardous decomposition products:

Carbon oxides. Nitrogen oxides.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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**Inhalation:** Vapours may irritate throat/ respiratory system. Symptoms following over exposure may include: headache, dizziness, drowsiness.

**Ingestion:** Gastrointestinal symptoms, including upset stomach.

**Skin contact:** Irritating to skin. May cause sensitisation by skin contact. Repeated exposure may cause skin dryness or cracking.

**Eye contact:** Irritating to eyes.

**Target organs:** Eyes, skin, respiratory system, lungs.

**Acute toxicity- dermal (LD<sub>50</sub>mg/kg):** data lacking

**Acute toxicity- inhalation (LC<sub>50</sub>vapours mg/l):** data lacking

**Skin corrosion/ irritation (animal data):** data lacking

**Serious eye damage/ irritation:** data lacking

**Respiratory sensitisation:** data lacking

**Skin sensitisation:** data lacking

**Germ cell mutagenicity:** data lacking

**Carcinogenicity:** data lacking

**Reproductive toxicity:** data lacking

**Specific target organ toxicity- single exposure:** data lacking

**Specific target organ toxicity- repeated exposure:** data lacking

**Aspiration hazard:** data lacking

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## SECTION 12: Ecological information

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

### 12.1 Toxicity:

#### -Methyl methacrylate

Acute toxicity- fish: LC50 130 mg/l. Exposure time 96h. Species: Pimephales promelas (fathead minnow).

Acute toxicity- aquatic invertebrates: EC50 69 mg/l. Exposure time 48h. Species: Daphnia magna.

Acute toxicity- aquatic plants: 170 mg/l. Exposure time 96h. Species: Selenastrum capricornatum.

#### -N,N-Dimethyl-p-toluidine

Acute aquatic toxicity: Harmful to aquatic life

Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects

Toxicity to fish: LC50: 46-52 mg/l. Exposure time 96h. Species: Pimephales promelas (fathead minnow).

#### - 2-Hydroxyethyl methacrylate

Data lacking.

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### 12.2 Persistence and degradability

#### -Methyl methacrylate

Product is readily biodegradable

#### -N,N-Dimethyl-p-toluidine

No information available

#### - 2-Hydroxyethyl methacrylate

No information available

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### 12.3 Bioaccumulative potential

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**-Methyl methacrylate**

Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

**-N,N-Dimethyl-p-toluidine**

No information available

**- 2-Hydroxyethyl methacrylate**

No information available

## 12.4 Mobility in soil

**-Methyl methacrylate**

The product has poor water-solubility.

**-N,N-Dimethyl-p-toluidine**

No information available

**- 2-Hydroxyethyl methacrylate**

No information available

## 12.5 Results of PBT and vPvB assessment

**-Methyl methacrylate**

This product does not contain any substances classified as PBT or vPvB.

**-N,N-Dimethyl-p-toluidine**

This product does not contain any substances classified as PBT or vPvB.

**- 2-Hydroxyethyl methacrylate**

This product does not contain any substances classified as PBT or vPvB.

## 12.6 Other adverse effects:

Not determined.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Directive 2008/98/EC (Waste Framework Directive)**

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).*

Product

Waste is hazardous. It must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.

Contaminated packaging

Dispose of as unused product.

Other disposal recommendation

Do not discharge into the drains/ surface waters/ ground water.

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## SECTION 14: Transport information

|  | Land transport<br>(ADR/RID)   | Inland waterway transport<br>(ADN)   | Sea transport<br>(IMDG)   | Air transport<br>(ICAO-TI / IATA-DGR)   |
|--|---|--|---|---|
| <b>14.1 UN No.</b>                     | UN1247  | UN1247   | UN1247  | UN1247  |
| <b>14.2 UN Proper shipping name</b>    | Methyl methacrylate monomer, stabilized   | Methyl methacrylate monomer, stabilized  | Methyl methacrylate monomer, stabilized   | Methyl methacrylate monomer, stabilized   |
| <b>14.3 Transport hazard class(es)</b> | 3   | 3  | 3   | 3   |
| <b>Hazard label(s)</b>                 |    |    |    |    |
| <b>14.4 Packing group</b>              | II  | II   | II  | II  |
| <b>14.5 Environmental hazards</b>      | No  | No   | No  | No  |

### 14.6 Special precautions for user

None known.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### Additional information

Transported in limited quantities.

## SECTION 15: Regulatory information

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

#### EU regulations

-Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

-Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

#### Guidance

-Safety Data Sheets for Substances and Preparations

### 15.2 Chemical Safety Assessment

No information available.

## SECTION 16: Other information

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## 16.1 Indication of changes

NOTE: Lines within the margin will indicate significant changes from the previous revision

## 16.2 Key literature references and sources for data

Relevant manuals and publications

Existing SDS for substances contained in product

## 16.3 Relevant R-, H- and EUH-phrases (number and full text)

**H225** Highly flammable liquid and vapour

**H301** Toxic if swallowed

**H302** Harmful if swallowed

**H312** Harmful in contact with skin

**H315** Causes skin irritation

**H317** May cause an allergic skin reaction

**H319** Causes serious eye irritation

**H330** Fatal if inhaled

**H331** Toxic if inhaled

**H332** Harmful if inhaled

**H335** May cause respiratory irritation

**H351** Suspected of causing cancer

**H370** Causes damage to organs

**H373** May cause damage to organs through prolonged or repeated exposure

**H412** Harmful to aquatic life with long lasting effects

## 16.4 Other Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.