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

* 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. 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**

**1.4 EMERGENCY TELEPHONE NUMBER:**

**Evonik Telephone - +49 61151 1801**

**Chemische Fabrik Emergency - +49 6151 18 4342**

**d-64275 Darmstadt**

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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.

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* 1. **Label elements**

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



**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

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**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

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**SECTION 3. Composition/information on ingredients**

**3.1 Substances**

Not applicable

**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 methacrylate2-Hydroxyethyl methacrylateN,N-Dimethyl-p-toluidine | 80-62-6868-77-999-97-8 | 201-297-1212-782-2202-805-4 | 01-2119452498-2801-2119490169-2901-2119937766-23 | 60-100%15-40%1-5%  | H225, H315, H317, H335, H370 H225, H302, H315, H317, H319, H335, H351 H301, H330, H331, H351, H373, H412 |

 **Additional information:**

Full text of H-phrases: see SECTION 16.

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**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

* 1. 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

* 1. **Environmental precautions**

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

* 1. **Methods and material for containment and cleaning up**

Largerquantities – 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**

* 1. **Control parameters**

**Occupational exposure limits**

**-Methyl methacrylate**

 Long-term exposure limit (8-hour TWA):WEL 50ppm 208mg/m³

 Short-term exposure limit (15-minute): WEL 100ppm 416mg/m³

 \*WEL= Workplace Exposure Limit\*

 **DNEL** Industry- Inhalation: 1.35mg/m³

 Industry- Skin contact: 1.19mg/kg

 Consumer- Inhalation: 0.34mg/m³

 Consumer- Skin contact: 0.29mg/kg

 Consumer- Ingestion: 2.37mg/kg

**PNEC** Fresh water; 0.153mg/l

 Marine water; 0.0153mg/l

 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/m³

 Industry- Dermal; Long term: 13.67mg/kg/day

 Industry- Dermal; Short term:1500mg/m³

 Consumer- Inhalation; Long term: 74.3mg/m³

 Consumer- Dermal; Long term: 8.2mg/kg/day

 Consumer- Dermal; Short term: 1500mg/m³

**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**

**Protective measures** Do not inhale vapours

 Avoid contact with eyes

**Hygiene measures** Store work clothing separately

 Remove soiled or soaked clothing immediately

 Follow the usual good standards of occupational hygiene

**Respiratory Protection** If ventilation insufficient, wear respiratory protection

 Short term- filter apparatus, Filter A

**Hand protection** Rubber gloves

**Eye protection** Goggles

**Body protection** When handling larger quantities: face mask, rubber boots and rubber apron

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**SECTION 9. Physical and chemical properties**

**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:** +8oC

**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**

**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 (LD50mg/kg):** data lacking

 **Acute toxicity- inhalation (LC50vapours 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**

**-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 (ADR/RID)** | **Inland waterway transport (ADN)** | **Sea transport (IMDG)** | **Air transport (ICAO-TI / IATA-DGR)** |
| **14.1 UN No.** | UN1247 | UN1247 | UN1247 | UN1247 |
| **14.2 UN Proper shipping name** | Methyl methacrylate monomer, stabilized | Methyl methacrylate monomer, stabilized | Methyl methacrylate monomer, stabilized | Methyl methacrylate monomer, stabilized |
| **14.3 Transport hazard class(es)** | 3 | 3 | 3 | 3 |
| **| Hazard label(s)** | Image result for GHS irritantImage result for UN1247 transport labels | Image result for GHS irritantImage result for UN1247 transport labels | Image result for GHS irritantImage result for UN1247 transport labels | Image result for GHS irritant |
| **14.4 Packing group** | II | II | II | II |
| **14.5 Environmental hazards** | 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.

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**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

* 1. **Chemical Safety Assessment**

No information available.

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**SECTION 16: Other information**

**16.1 Indication of changes**

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

* 1. **Key literature references and sources for data**

Relevant manuals and publications

Existing SDS for substances contained in product

* 1. **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

* 1. **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.