

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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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

1.4 EMERGENCY TELEPHONE NUMBER:

**Evonik
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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

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.

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.

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

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.

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/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



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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/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.

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

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

9.2 Other information:

Flash Point: +8°C

Sustaining Combustion: Not available

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.

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 (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

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.

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

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.

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)				
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.

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.

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

1.1 Product identifier:

POLYMETHYL METHACRYLATE and BENZOYL PEROXIDE

Substances

- Degacryl MW 422
- Degacryl 6658 F
- Degacryl 6582 F
- Perkadox CH-50X

Trade name / designation Polymethyl Methacrylate and Benzoyl Peroxide

Hazard components for labelling

- dibenzoyl peroxide (CAS 94-36-0)
- methyl methacrylate (CAS 80-62-6)
- dicyclohexyl phthalate (CAS 84-61-7)

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

1.4 EMERGENCY TELEPHONE NUMBER:

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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]

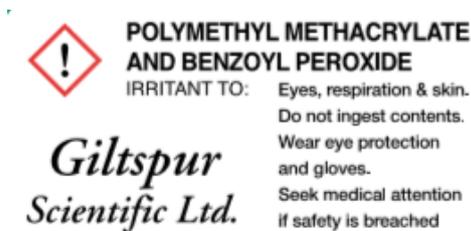
H317 Skin Sens.

Additional information:

Full text of H-phrases: see SECTION 16.

2.2 Label elements

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



Hazard statements:

H317 May cause an allergic skin reaction

Precautionary statements:

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

P280 Wear protective gloves and eye protection

P281 Use personal protective clothing as required

P260 Do not breathe dust

P284 Wear respiratory protection (filtering mask in case of dust formation)

2.3 Other hazards

Dust explosions are generally to be expected with dust-forming organic products.

SECTION 3. Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Description of the mixture:

Mixture of Degacryl MW422, Degacryl 6658F, Degacryl 6582F and Perkadox CH-50X.

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Hazardous ingredients

Substance name	CAS No.	EC No.	REACH No.	Concentration	Classification according Regulation (EC) No. 1272 [CLP]
Degacryl 6658F Dibenzoyl peroxide	94-36-0	202-327-6	01-2119511472-50	>=3.0%- <10.0%	H241, H319, H317, H400, H410
Methyl Methacrylate	80-62-6	201-297-1	01-2119452498-28	>=1.0%- <5.0%	H225, H315, H317, H335
Degacryl 6582F Dibenzoyl peroxide; benzoyl peroxide	94-36-0	202-327-6	-	0.1-<0.5%	H241, H317, H319, H400
Perkadox CH-50X Dibenzoyl peroxide	94-36-0	202-327-6	01-2119511472-50	50-60%	H241, H319, H317, H400
Dicyclohexylphthalate	84-61-7	201-545-9	01-2119978223-34	40-50%	H317, H361, 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

Do not inhale dust.

Following inhalation

In the event of symptoms refer for medical treatment.

Following skin contact

Wash off immediately with soap and water, if irritation persists refer for medical attention.

Following eye contact

Rinse thoroughly with plenty of water, if irritation persists seek medical attention.

Following ingestion

Call for medical aid in case of indisposition.

4.2 Most important symptoms and effects, both acute and delayed

May cause sensitisation by skin contact.

4.3 Indication of any immediate medical attention and special treatment needed

Following ingestion, call for medical aid.

In the event of symptoms following inhalation, refer for medical treatment.

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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

Dust explosions are generally to be expected with dust-forming organic products

5.3 Advice for fire-fighters

In the event of fire, cool endangered product with water.
Wear self-contained breathing apparatus.
Do not discharge into the drains/ surface waters/ ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel and for emergency responders

P260 Do not breathe dust
P280 Wear protective gloves and eye protection
P281 Use personal protective clothing as required
P284 Wear respiratory protection (filtering mask in case of dust formation)

Avoid dust formation
High risk of slipping due to spillage of product
Ensure sufficient ventilation
Remove all sources of ignition
Avoid contact with skin, eyes, clothing

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Dispose of in accordance with regulations.
Ventilate room
Do not allow to enter soil, waterways or waste water.

6.4 Reference to other sections

For personal protection see section 8. For disposal considerations see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

P243 Take precautionary measures against static discharges

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

Ensure sufficient ventilation

Avoid dust formation

In the event of fire, cool endangered product with water

Advice on general occupational hygiene

Follow the usual good standards of occupational hygiene

7.2 Conditions for safe storage, including any incompatibilities

P402 Store in a dry place

7.3 Specific end uses

Adhesive in application of hoof care products.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

WEL= Workplace Exposure Limit

-dust, particulates

WEL (long-term) 2009 (inhalable):

10mg/m³

WEL (long-term) 2009 (respirable dust):

4mg/m³

-methyl methacrylate 80-62-6

WEL (long-term) 2009:

208mg/m³

50ppm

WEL (short-term) 2009:

416mg/m³

100ppm

Indicative occupational exposure limit value 2009/161/EC 2009:

50ppm

Indicative occupational exposure limit value 2009/161/EC(15min) 2009:

100ppm

-dibenzoyl peroxide 94-36-0

WEL (long term) 2009:

5mg/m³

DNEL

Workers- Inhalation; Long term:

11.75mg/m³

Workers- Skin contact; Long term:

6.6mg/m³

Consumers- Inhalation; Long term:

2.9mg/m³

Consumers- Skin contact; Long term:

3.3mg/m³

Consumers- Ingestion; Long term:

1.65mg/m³

PNEC

Fresh water

0.000602mg/l

Marine water

0.000060mg/l

Intermittent water

0.000602mg/l

Sewage treatment plant

0.35mg/l

Fresh water sediment

0.338mg/l

Soil

0.0758mg/l

Secondary poisoning

6.67mg/l

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-dicyclohexyl phthalate 84-61-7

WEL (long term) 2009:

5mg/m³

DNEL

Workers- Inhalation; Acute:	35.2mg/m ³
Workers- Inhalation; Long term:	35.2mg/m ³
Workers- Skin contact; Acute:	0.5mg/m ³
Workers- Skin contact; Long term:	0.5mg/m ³
Consumers- Inhalation; Acute:	0.87mg/m ³
Consumers- Inhalation; Long term:	0.87mg/m ³
Consumers- Skin contact; Long term:	0.25mg/m ³
Consumers- Ingestion; Long term:	0.25mg/m ³

PNEC

Fresh water	0.00362mg/l
Marine water	0.000362mg/l
Intermittent water	0.0326mg/l
Sewage treatment plant	10mg/l
Fresh water sediment	1.06mg/kg dry weight
Marine water sediment	0.106mg/kg dry weight
Soil	0.21mg/kg dry weight
Oral	133mg/kg food

-silicon dioxide 7631-86-9

WEL (long-term) 2009 (inhalable):

6mg/m³

WEL (long-term) 2009 (respirable dust):

5mg/m³

8.2 Exposure controls

Protective measures

Do not inhale dust
Avoid contact with eyes, skin and clothing

Hygiene measures

Store work clothing separately
Remove contaminated clothing
Follow the usual good standards of occupational hygiene
Clean skin thoroughly after work

Respiratory Protection

Respiratory protection in case of dust formation (filtering mask)

Hand protection

Protective gloves

Eye protection

Tightly fitting goggles

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Solid- powder

Colour: White

Odour: Faint

Freezing point: N/A

Boiling point: N/A

pH: Not available

Flash point: Not available

Evaporation rate: N/A

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Flammability: Not available

Upper/ lower flammability or explosive limits: Not available

Vapour pressure: N/A

Vapour density: N/A

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

9.2 Other information:

Dust explosions are generally to be expected with dust-forming organic products

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

None known

10.4 Conditions to avoid:

Operations that create dust
Keep away from heat and sources of ignition

10.5 Incompatible materials:

Information not available

10.6 Hazardous decomposition products:

None when used as prescribed

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Inhalation: Dust may be irritating to the respiratory system

Skin contact: May cause allergic skin reaction/ sensitisation

Eye contact: Causes eye irritation

Acute Oral Toxicity: data lacking

Caustic burning/ irritation of skin: data lacking

Serious eye damage/ eye irritation: data lacking

Respiratory/ skin sensitisation: data lacking

Aspiration hazard: data lacking

Mutagenicity assessment: data lacking

Carcinogenicity: data lacking

Reprotoxicity/ teratogenicity: data lacking

Specific Target Organ Toxicity- Single Exposure: data lacking

Specific Target Organ Toxicity-Repeated Exposure: data lacking

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SECTION 12: Ecological information

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

12.1 Toxicity:

-Degacryl MW 422

No evidence for hazardous properties

-Degacryl 6658 F

Aquatic toxicity, fish: LC50 2mg/l. Exposure time 96h. Species: Poecilia reticulata (guppy). Related to substance: dibenzoyl peroxide.

Aquatic toxicity, invertebrates: LC50 3.7mg/l. Exposure time 48h. Species: Daphnia magna. Related to substance: dibenzoyl peroxide.

-Degacryl 6582 F

No evidence for hazardous properties

-Perkadox CH-50X

Substance: dibenzoyl peroxide

Acute aquatic toxicity: Very toxic to aquatic organisms

Chronic aquatic toxicity: No known ecotoxicological effects

Toxicity to fish: LC50 0.06mg/l. Exposure time 96h.

Toxicity to aquatic invertebrates: EC50 0.11mg/l. Exposure time 48h.

Toxicity to algae: EC50 0.06mg/l. Exposure time 72h.

Toxicity to bacteria: EC50 35mg/l.

Substance: dicyclohexyl phthalate

Acute aquatic toxicity: Harmful to aquatic life

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

Toxicity to fish: LC50 >2mg/l. Exposure time 96h.

Toxicity to aquatic invertebrates: EC50 >2mg/l. Exposure time 48h.

Toxicity to algae: ErC50 >2mg/l. Exposure time 72h.

Toxicity to bacteria: NOEC >100mg/l. Exposure time 3h.

12.2 Persistence and degradability

-Degacryl MW 422

No data available

-Degacryl 6658 F

No data available

-Degacryl 6582 F

No data available

-Perkadox CH-50X

No data available

Components:

Dibenzoyl peroxide- Inherently biodegradable

Dicyclohexyl phthalate- Readily biodegradable

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12.3 Bioaccumulative potential

-Degacryl MW 422

No data available

-Degacryl 6658 F

No data available

-Degacryl 6582 F

No data available

-Perkadox CH-50X

No data available

Components:

Dibenzoyl peroxide- Bioconcentration factor: 66.6

Dicyclohexyl phthalate- No bioaccumulation is expected

12.4 Mobility in soil

-Degacryl MW 422

No data available

-Degacryl 6658 F

No data available

-Degacryl 6582 F

No data available

-Perkadox CH-50X

No data available

12.5 Results of PBT and vPvB assessment

-Degacryl MW 422

PBT: no

vPvB: no

-Degacryl 6658 F

No data available

-Degacryl 6582 F

PBT: no

vPvB: no

-Perkadox CH-50X

This product contains no components considered to be PBT or vPvB at levels of 0.1% or higher.

Components:

Dibenzoyl peroxide- not classified as PBT or vPvB

Dicyclohexyl phthalate- not considered to be PBT or vPvB

12.6 Other adverse effects:

This product has not been tested ecotoxicologically. Prevent substance from entering soil, natural bodies of water and sewer systems.

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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 non-hazardous. It should be disposed of in accordance with regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.

Contaminated Packaging

Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Packaging which cannot be decontaminated should be disposed of like the material. Packaging that cannot be cleaned should be disposed of professionally.

Other disposal recommendation

Do not allow to enter soil, waterways or waste water

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.	See 14.2	See 14.2	See 14.2	See 14.2
14.2 UN Proper shipping name	Not dangerous according to transport regulations			
14.3 Transport hazard class(es)	See 14.2	See 14.2	See 14.2	See 14.2
Hazard label(s)	See 14.2	See 14.2	See 14.2	See 14.2
14.4 Packing group	See 14.2	See 14.2	See 14.2	See 14.2
14.5 Environmental hazards	See 14.2	See 14.2	See 14.2	See 14.2

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

For approval see regulatory information

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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

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

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

H315 Causes skin irritation

H335 May cause respiratory irritation

H241 Heating may cause a fire or explosion

H242 Heating may cause a fire

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H361 Suspected of damaging fertility or the unborn child

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

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.