

**GERKO Metal Bond MMA 50ml (component 2)
MB50 (B)**




Date of compilation: 19/03/2025

Version: 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** GERKO Metal Bond MMA 50ml (component 2)
MB50 (B)
- Other means of identification:**
- UFI:** 6A50-H0C4-G00W-UFR2
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- Relevant uses (Professional users): Adhesive
For Professional users only.
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**
- Gerko International bv
Beemdenstraat 36
2340 Beerse - Antwerpen - Belgium
Phone: +32 3 312 21 30
info@gerkoproducs.com
www.gerkoproducs.com
- 1.4 Emergency telephone number:** Gerko International bv tel: +32 3 312 21 30 Mon to Fri 08:00 - 16:30 hrs

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
- CLP Regulation (EC) No 1272/2008:**
- Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
- Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Flam. Liq. 2: Flammable liquids, Category 2, H225
Skin Irrit. 2: Skin irritation, Category 2, H315
Skin Sens. 1: Sensitisation, skin, Category 1, H317
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335
- 2.2 Label elements:**
- CLP Regulation (EC) No 1272/2008:**
- Labelling of packages where the contents do not exceed 125 ml:
- Danger**
-   
- Hazard statements:**
- Skin Sens. 1: H317 - May cause an allergic skin reaction.
- Precautionary statements:**
- P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of water.
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.
- Substances that contribute to the classification**
- Methyl methacrylate
- UFI:** 6A50-H0C4-G00W-UFR2
- 2.3 Other hazards:**
- Product does not meet PBT/vPvB criteria
Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substance:**
- Not relevant

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

3.2 Mixture:

Chemical description: Mixture of substances

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification | Chemical name/Classification | Concentration |
|---|--|---------------|
| CAS: 80-62-6 EC: 201-297-1 Index: 607-035-00-6 REACH: 01-2119452498-28-XXXX | Methyl methacrylate⁽¹⁾ ATP CLP00 Regulation 1272/2008 Flam. Liq. 2: H225; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger | 50 - <60 % |
| CAS: 27138-31-4 EC: 248-258-5 Index: Not relevant REACH: 01-2119529241-49-XXXX | Oxydipropyl dibenzoate⁽²⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 3: H412 | <15 % |
| CAS: 34562-31-7 EC: 252-091-3 Index: Not relevant REACH: 01-2120769712-47-XXXX | 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine⁽¹⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning | <2 % |
| CAS: 36443-68-2 EC: 253-039-2 Index: Not relevant REACH: 01-2119956160-44-XXXX | Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 1: H410 - Warning | <0,5 % |
| CAS: 136-52-7 EC: 205-250-6 Index: Not relevant REACH: 01-2119524678-29-XXXX | Cobalt bis(2-ethylhexanoate)⁽²⁾ Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Repr. 1B: H360FD; Skin Sens. 1: H317 - Danger | <0,1 % |

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

⁽²⁾ Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

| Identification | M-factor |
|---|------------------------|
| 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine CAS: 34562-31-7 EC: 252-091-3 | Acute 10 Chronic 10 |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate] CAS: 36443-68-2 EC: 253-039-2 | Acute 1 Chronic 10 |

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification | Acute toxicity | Genus |
|---|--|-------|
| 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine CAS: 34562-31-7 EC: 252-091-3 | LD50 oral 500 mg/kg LD50 dermal Not relevant LC50 inhalation vapour Not relevant | |

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification | | Occupational exposure limits | |
|---|--|------------------------------|---------|
| Methyl methacrylate CAS: 80-62-6 EC: 201-297-1 | | IOELV (8h) | 50 ppm |
| | | IOELV (STEL) | 100 ppm |

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|--|------------|-------------------------|-----------------------|-------------------------|--------------------------|
| | | Systemic | Local | Systemic | Local |
| Methyl methacrylate CAS: 80-62-6 EC: 201-297-1 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 13,67 mg/kg | Not relevant |
| | Inhalation | Not relevant | 416 mg/m ³ | 348,4 mg/m ³ | 208 mg/m ³ |
| Oxydipropyl dibenzoate CAS: 27138-31-4 EC: 248-258-5 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | 170 mg/kg | Not relevant | 10 mg/kg | Not relevant |
| | Inhalation | 35,08 mg/m ³ | Not relevant | 8,8 mg/m ³ | Not relevant |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate] CAS: 36443-68-2 EC: 253-039-2 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 86 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 3 mg/m ³ | 3 mg/m ³ |
| Cobalt bis(2-ethylhexanoate) CAS: 136-52-7 EC: 205-250-6 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | Not relevant | Not relevant |
| | Inhalation | Not relevant | Not relevant | Not relevant | 0,2351 mg/m ³ |

DNEL (General population):

| Identification | | Short exposure | | Long exposure | |
|--|------------|-----------------------|-----------------------|------------------------|-------------------------|
| | | Systemic | Local | Systemic | Local |
| Methyl methacrylate CAS: 80-62-6 EC: 201-297-1 | Oral | Not relevant | Not relevant | 8,2 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | 8,2 mg/kg | Not relevant |
| | Inhalation | Not relevant | 208 mg/m ³ | 74,3 mg/m ³ | 104 mg/m ³ |
| Oxydipropyl dibenzoate CAS: 27138-31-4 EC: 248-258-5 | Oral | 80 mg/kg | Not relevant | 5 mg/kg | Not relevant |
| | Dermal | 80 mg/kg | Not relevant | 0,22 mg/kg | Not relevant |
| | Inhalation | 8,7 mg/m ³ | Not relevant | 8,69 mg/m ³ | Not relevant |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate] CAS: 36443-68-2 EC: 253-039-2 | Oral | Not relevant | Not relevant | 4,3 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | 43 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | Not relevant | Not relevant |
| Cobalt bis(2-ethylhexanoate) CAS: 136-52-7 EC: 205-250-6 | Oral | Not relevant | Not relevant | 0,175 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | Not relevant | Not relevant |
| | Inhalation | Not relevant | Not relevant | Not relevant | 0,037 mg/m ³ |

PNEC:

| Identification | | | | | |
|--|--------------|--------------|-------------------------|--------------|--|
| Methyl methacrylate CAS: 80-62-6 EC: 201-297-1 | STP | 10 mg/L | Fresh water | 0,94 mg/L | |
| | Soil | 1,48 mg/kg | Marine water | 0,094 mg/L | |
| | Intermittent | 0,94 mg/L | Sediment (Fresh water) | 10,2 mg/kg | |
| | Oral | Not relevant | Sediment (Marine water) | 0,102 mg/kg | |
| Oxydipropyl dibenzoate CAS: 27138-31-4 EC: 248-258-5 | STP | 10 mg/L | Fresh water | 0,0037 mg/L | |
| | Soil | 1 mg/kg | Marine water | 0,00037 mg/L | |
| | Intermittent | 0,037 mg/L | Sediment (Fresh water) | 1,49 mg/kg | |
| | Oral | 0,333 g/kg | Sediment (Marine water) | 0,149 mg/kg | |
| Cobalt bis(2-ethylhexanoate) CAS: 136-52-7 EC: 205-250-6 | STP | 0,37 mg/L | Fresh water | 0,00062 mg/L | |
| | Soil | 10,9 mg/kg | Marine water | 0,00236 mg/L | |
| | Intermittent | Not relevant | Sediment (Fresh water) | 53,8 mg/kg | |
| | Oral | Not relevant | Sediment (Marine water) | 69,8 mg/kg | |

8.2 Exposure controls:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)



A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection



| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|--|--|---------------------|--|
|  Mandatory respiratory tract protection | Filter mask for gases and vapours (Filter type: A) |  CAT III | EN 405:2002+A1:2010 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

C.- Specific protection for the hands





| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|--|--|-------------------|--|
|  Mandatory hand protection | Chemical protective gloves (Material: Butyl, Breakthrough time: > 60 min, Thickness: 0.3 mm) |  CAT III | EN ISO 21420:2020 | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection



| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---|---|---------------------------------|---|
|  Mandatory face protection | Panoramic glasses against splash/projections. |  CAT II | EN 166:2002 EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|--|---|---|
|  Mandatory complete body protection | Antistatic and fireproof protective clothing |  CAT III | EN 1149-1:2007 EN 1149-2:1998 EN 1149-3:2004 UNE-EN ISO 18526-1 al 4:2020 EN ISO 14116:2015 EN 1149-5:2018 | Limited protection against flames. |
|  Mandatory foot protection | Safety footwear with antistatic and heat resistant properties |  CAT III | EN ISO 13287:2020 EN ISO 20345:2022 | Replace boots at any sign of deterioration. |

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

| Emergency measure | Standards | Emergency measure | Standards |
|---|---|--|--|
|  Emergency shower | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 |  Eyewash stations | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| | |
|---------------------------|---------------------------------------|
| V.O.C. (Supply): | 60 % weight |
| V.O.C. density at 20 °C: | 689,34 kg/m ³ (689,34 g/L) |
| Average carbon number: | 5 |
| Average molecular weight: | 100,1 g/mol |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

| | |
|--------------------------|----------------|
| Physical state at 20 °C: | Liquid |
| Appearance: | Dispersion |
| Colour: | Black |
| Odour: | Resin |
| Odour threshold: | Not relevant * |

Volatility:

| | |
|--|-------------------------|
| Boiling point at atmospheric pressure: | 100 °C |
| Vapour pressure at 20 °C: | 3671 Pa |
| Vapour pressure at 50 °C: | 16156,18 Pa (16,16 kPa) |
| Evaporation rate at 20 °C: | Not relevant * |

Product description:

| | |
|--|--------------------------|
| Density at 20 °C: | 1148,9 kg/m ³ |
| Relative density at 20 °C: | 1,149 |
| Dynamic viscosity at 20 °C: | 1,17 mPa·s |
| Kinematic viscosity at 20 °C: | 1,02 mm ² /s |
| Kinematic viscosity at 40 °C: | Not relevant * |
| Concentration: | Not relevant * |
| pH: | Not relevant * |
| Vapour density at 20 °C: | Not relevant * |
| Partition coefficient n-octanol/water 20 °C: | Not relevant * |
| Solubility in water at 20 °C: | Not relevant * |
| Solubility properties: | Not relevant * |
| Decomposition temperature: | Not relevant * |
| Melting point/freezing point: | Not relevant * |

Flammability:

| | |
|----------------------------|----------------|
| Flash Point: | 11 °C |
| Flammability (solid, gas): | Not relevant * |
| Autoignition temperature: | 421 °C |
| Lower flammability limit: | Not relevant * |
| Upper flammability limit: | Not relevant * |

Particle characteristics:

| | |
|-----------------------------|----------------|
| Median equivalent diameter: | Not relevant * |
|-----------------------------|----------------|

9.2 Other information:

Information with regard to physical hazard classes:

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

| | |
|--|----------------|
| Explosive properties: | Not relevant * |
| Oxidising properties: | Not relevant * |
| Corrosive to metals: | Not relevant * |
| Heat of combustion: | Not relevant * |
| Aerosols-total percentage (by mass) of flammable components: | Not relevant * |

Other safety characteristics:

| | |
|---------------------------|----------------|
| Surface tension at 20 °C: | Not relevant * |
| Refraction index: | Not relevant * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable | Not applicable | Risk of combustion | Avoid direct impact | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

Contains substances highly reactive and can auto-polymerize as a result of internal peroxide accumulation. The peroxides formed in these reactions are extremely shock- and heat-sensitive.

SECTION 11: TOXICOLOGICAL INFORMATION

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

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

C- Contact with the skin and the eyes (acute effect):

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Methyl methacrylate (3); Cobalt bis(2-ethylhexanoate) (2B); Talc (3)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) - single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|---|----------------------|-----------|-------|
| 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine CAS: 34562-31-7 EC: 252-091-3 | LD50 oral | 500 mg/kg | |
| | LD50 dermal | | |
| | LC50 inhalation | | |
| | LC50 inhalation dust | | |

Acute Toxicity Estimate (ATE mix):

| ATE mix | | Ingredient(s) of unknown toxicity |
|------------------------|-------------------------------------|-----------------------------------|
| Oral | >2000 mg/kg (Calculation method) | 0 % |
| Dermal | >2000 mg/kg (Calculation method) | 0 % |
| LC50 inhalation vapour | >20 mg/L (4 h) (Calculation method) | 0 % |

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Not relevant

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Toxic to aquatic life with long lasting effects.

12.1 Toxicity:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Acute toxicity:

| Identification | Concentration | Species | Genus |
|---|------------------------------|---------------------------------|------------|
| Methyl methacrylate | LC50 191 mg/L (96 h) | Lepomis macrochirus | Fish |
| CAS: 80-62-6 | EC50 69 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 201-297-1 | EC50 170 mg/L (96 h) | Selenastrum capricornutum | Algae |
| Oxydipropyl dibenzoate | LC50 >10 - 100 mg/L (96 h) | | Fish |
| CAS: 27138-31-4 | EC50 >10 - 100 mg/L (48 h) | | Crustacean |
| EC: 248-258-5 | EC50 >10 - 100 mg/L (72 h) | | Algae |
| 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine | LC50 >0.01 - 0.1 mg/L (96 h) | | Fish |
| CAS: 34562-31-7 | EC50 >0.01 - 0.1 mg/L (48 h) | | Crustacean |
| EC: 252-091-3 | EC50 >0.01 - 0.1 mg/L (72 h) | | Algae |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl) propionate] | LC50 >0.1 - 1 mg/L (96 h) | | Fish |
| CAS: 36443-68-2 | EC50 >0.1 - 1 mg/L (48 h) | | Crustacean |
| EC: 253-039-2 | EC50 >0.1 - 1 mg/L (72 h) | | Algae |
| Cobalt bis(2-ethylhexanoate) | LC50 Not relevant | | |
| CAS: 136-52-7 | EC50 Not relevant | | |
| EC: 205-250-6 | EC50 0,144 mg/L (72 h) | Pseudokirchneriella subcapitata | Algae |

Chronic toxicity:

| Identification | Concentration | Species | Genus |
|---|-----------------------|---------------|------------|
| Methyl methacrylate | NOEC 9,4 mg/L | Danio rerio | Fish |
| CAS: 80-62-6 EC: 201-297-1 | NOEC 37 mg/L | Daphnia magna | Crustacean |
| 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine | NOEC >0.01 - 0.1 mg/L | | Fish |
| CAS: 34562-31-7 EC: 252-091-3 | NOEC >0.01 - 0.1 mg/L | | Crustacean |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl) propionate] | NOEC >0.01 - 0.1 mg/L | | Fish |
| CAS: 36443-68-2 EC: 253-039-2 | NOEC >0.01 - 0.1 mg/L | | Crustacean |

12.2 Persistence and degradability:

Substance-specific information:

| Identification | Degradability | Biodegradability |
|---|-----------------------|----------------------------|
| Methyl methacrylate | BOD5 Not relevant | Concentration 100 mg/L |
| CAS: 80-62-6 | COD Not relevant | Period 14 days |
| EC: 201-297-1 | BOD5/COD Not relevant | % Biodegradable 94,3 % |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl) propionate] | BOD5 Not relevant | Concentration Not relevant |
| CAS: 36443-68-2 | COD Not relevant | Period 28 days |
| EC: 253-039-2 | BOD5/COD Not relevant | % Biodegradable 8 % |
| Cobalt bis(2-ethylhexanoate) | BOD5 Not relevant | Concentration 10 mg/L |
| CAS: 136-52-7 | COD Not relevant | Period 10 days |
| EC: 205-250-6 | BOD5/COD Not relevant | % Biodegradable 60 % |

12.3 Bioaccumulative potential:

Substance-specific information:

| Identification | Bioaccumulation potential |
|------------------------------|---------------------------|
| Methyl methacrylate | BCF 7 |
| CAS: 80-62-6 | Pow Log 1.38 |
| EC: 201-297-1 | Potential Low |
| Cobalt bis(2-ethylhexanoate) | BCF 23 |
| CAS: 136-52-7 | Pow Log |
| EC: 205-250-6 | Potential Low |

12.4 Mobility in soil:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification | Absorption/desorption | | Volatility | |
|--|-----------------------|----------------------|------------|--------------|
| Methyl methacrylate | Koc | Not relevant | Henry | Not relevant |
| CAS: 80-62-6 | Conclusion | Not relevant | Dry soil | Not relevant |
| EC: 201-297-1 | Surface tension | 2,551E-2 N/m (25 °C) | Moist soil | Not relevant |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate] | Koc | 1914000 | Henry | Not relevant |
| CAS: 36443-68-2 | Conclusion | Immobile | Dry soil | Not relevant |
| EC: 253-039-2 | Surface tension | Not relevant | Moist soil | Not relevant |

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|-----------|--|--|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other hazardous substances | Hazardous |

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:



- 14.1 UN number or ID number:** UN1133
14.2 UN proper shipping name: ADHESIVES
14.3 Transport hazard class(es): 3
Labels: 3
14.4 Packing group: II
14.5 Environmental hazards: Yes
14.6 Special precautions for user
Special regulations: 640D
Tunnel restriction code: D/E
Physico-Chemical properties: see section 9
Limited quantities: 5 L
14.7 Maritime transport in bulk according to IMO instruments: Not relevant

Transport of dangerous goods by sea:

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SECTION 14: TRANSPORT INFORMATION (continued)

With regard to IMDG 41-22:



- 14.1 UN number or ID number:** UN1133
14.2 UN proper shipping name: ADHESIVES
14.3 Transport hazard class(es): 3
Labels: 3
14.4 Packing group: II
14.5 Marine pollutant: Yes
14.6 Special precautions for user
Special regulations: Not relevant
EmS Codes: F-E, S-D
Physico-Chemical properties: see section 9
Limited quantities: 5 L
Segregation group: Not relevant
14.7 Maritime transport in bulk according to IMO instruments: Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2025:



- 14.1 UN number or ID number:** UN1133
14.2 UN proper shipping name: ADHESIVES
14.3 Transport hazard class(es): 3
Labels: 3
14.4 Packing group: II
14.5 Environmental hazards: Yes
14.6 Special precautions for user
Physico-Chemical properties: see section 9
14.7 Maritime transport in bulk according to IMO instruments: Not relevant

SECTION 15: REGULATORY INFORMATION

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

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|-----------------------|-------------------------|-------------------------|
| P5c | FLAMMABLE LIQUIDS | 5000 | 50000 |
| E2 | ENVIRONMENTAL HAZARDS | 200 | 500 |

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

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SECTION 15: REGULATORY INFORMATION (continued)

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Not relevant

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

H225: Highly flammable liquid and vapour.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Repr. 1B: H360FD - May damage fertility. May damage the unborn child.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

STOT SE 3: H335 - May cause respiratory irritation.

Classification procedure:

Skin Irrit. 2: Calculation method

Skin Sens. 1: Calculation method

STOT SE 3: Calculation method

Aquatic Chronic 2: Calculation method

Flam. Liq. 2: Calculation method (2.6.4.3)

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

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SECTION 16: OTHER INFORMATION (continued)

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

GERKO
PAINT RELATED PRODUCTS



The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -