

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****MD-GLUE Ethyl**  
**Article number: MGL****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Adhesive

**1.2.2 Uses advised against**

None known.

**1.3 Details of the supplier of the safety data sheet**

<b>Company</b>	Marston Domsel GmbH Bergheimer Str. 15 53909 Zülpich / GERMANY Phone +49 (0) 22 52 94 15 0 Fax +49 (0) 22 52 17 44 Homepage <a href="http://www.marston-domsel.de">www.marston-domsel.de</a> E-mail <a href="mailto:info@marston-domsel.de">info@marston-domsel.de</a>
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<b>Safety Data Sheet</b>	<a href="mailto:sdb@chemiebuero.de">sdb@chemiebuero.de</a>

**1.4 Emergency telephone number**

<b>Advisory body</b>	+49 (0)89-19240 (24h) (English)
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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

Eye Irrit. 2: H319 Causes serious eye irritation.  
Skin Irrit. 2: H315 Causes skin irritation.  
STOT SE 3: H335 May cause respiratory irritation.

**2.2 Label elements**

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

**Hazard pictograms****Signal word**

WARNING

**Contains:**

Ethyl-2-cyanoacrylate

**Hazard statements**

H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H335 May cause respiratory irritation.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P261 Avoid breathing vapours.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves / eye protection / face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice / attention.  
P312 Call a POISON CENTER / doctor /.../ if you feel unwell.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/national regulation.

**Special labelling**

EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.



### 2.3 Other hazards

<b>Human health dangers</b>	People who are allergic to cyanoacrylates should avoid the use of the product.
<b>Other hazards</b>	No particular hazards known.

## SECTION 3: Composition / Information on ingredients

**Product-type:**

The product is a mixture.

Range [%]	Substance
70 - 90	Ethyl-2-cyanoacrylate CAS: 7085-85-0, EINECS/ELINCS: 230-391-5, EU-INDEX: 607-236-00-9, Reg-No.: 01-2119527766-29-XXXX GHS/CLP: STOT SE 3: H335 - Eye Irrit. 2: H319 - Skin Irrit. 2: H315
0,01 - < 0,1	1,4-Dihydroxybenzene CAS: 123-31-9, EINECS/ELINCS: 204-617-8, EU-INDEX: 604-005-00-4 GHS/CLP: Carc. 2: H351 - Muta. 2: H341 - Acute Tox. 4: H302 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - Aquatic Acute 1: H400, M = 10

<b>Comment on component parts</b>	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.
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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. Do not pull solidified product from skin forcibly.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Do not open bonded eyelids forcibly and without any special care.
<b>Ingestion</b>	Get medical advice. Do not induce vomiting. Do not give anything to drink. The product will polymerise immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard. Ensure breathing passages are not obstructed. Saliva will separate the solidified product from the mouth over a period of hours. Do not try to pull the polymerised adhesive from the mouth. Keep checking the mouth to ensure that the person doesn't swallow it when it detaches.

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

Cyanoacrylates give off heat on solidification. Gross contamination with the adhesive may generate enough heat to cause a burn. Burns should be treated normally after the polymer has been removed gently from the skin. If the person experiences a burning sensation flood the contaminated skin immediately with plenty of cold water to cool the burn. continue to remove the adhesive by gently peeling or rolling it from the skin whilst soaking the contaminated area in cold water. It will take longer to remove the adhesive with cold water but it will still be effective.

Accidental bonding of clothing with cyanoacrylate adhesive on the human skin:

If the cyanoacrylate adhesive has been splashed on the clothing and has soaked through to the skin the clothing should never be forcibly removed from the skin. If the clothing has bonded directly on the skin and the person isn't experiencing a burning sensation the affected area should be soaked with warm soapy water and the clothing removed gently by peeling or rolling back. Cold water should be used in cases where there is any burning sensation. Forcible removal of bonded clothing from the skin could lead to mechanical damage occurring to the skin and this could result in a more severe injury.

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

Treat symptomatically.  
Forward this sheet to the doctor.

**SECTION 5: Fire-fighting measures****5.1 Extinguishing media**

**Suitable extinguishing media** Carbon dioxide.  
Water spray jet.  
Sand.  
Dry powder.

**Extinguishing media that must not be used** Full water jet.

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

Carbon monoxide (CO).  
Risk of formation of toxic pyrolysis products.

**5.3 Advice for firefighters**

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Cool containers at risk with water spray jet.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.  
Keep away from all sources of ignition.  
Forms slippery surfaces with water.  
Use breathing apparatus if exposed to vapours/dust/aerosol.

**6.2 Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.

**6.3 Methods and material for containment and cleaning up**

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).  
Dispose of absorbed material in accordance within the regulations.

**6.4 Reference to other sections**

See SECTION 8+13

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Use only in well-ventilated areas.  
Avoid spilling or spraying in enclosed areas.  
Highly volatile, flammable components are liberated in processing.  
Keep away from all sources of ignition - Refrain from smoking.  
Do not eat, drink or smoke when using this product.  
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.  
Use barrier skin cream.  
Contaminated work clothing should not be allowed out of the workplace.  
Take off contaminated clothing and wash before reuse.

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

Only use containers that are approved specifically for the substance/product.  
Provide solvent-resistant and impermeable floor.

Do not store together with oxidizing agents.

Protect from heat/overheating.  
Keep container in a well-ventilated place.  
Keep container tightly closed.

**7.3 Specific end use(s)**

See product use, SECTION 1.2

**SECTION 8: Exposure controls / personal protection****8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Substance
Ethyl-2-cyanoacrylate
CAS: 7085-85-0, EINECS/ELINCS: 230-391-5, EU-INDEX: 607-236-00-9, Reg-No.: 01-2119527766-29-XXXX
Short-term exposure (15-minute): 0,3 ppm, 1,5 mg/m <sup>3</sup>

**DNEL**

Substance
Ethyl-2-cyanoacrylate, CAS: 7085-85-0
Industrial, inhalative, Long-term - systemic effects: 9,25 mg/m <sup>3</sup> .
Industrial, inhalative, Long-term - local effects: 9,25 mg/m <sup>3</sup> .
general population, inhalative, Long-term - systemic effects: 9,25 mg/m <sup>3</sup> .
general population, inhalative, Long-term - local effects: 9,25 mg/m <sup>3</sup> .

**8.2 Exposure controls**

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0,4 mm/ Butyl rubber, >240 min (EN 374-1/-2/-3). In splash contact: > 0,4 mm/ Nitrile rubber, >120 min (EN 374-1/-2/-3).
<b>Skin protection</b>	Light protective clothing.
<b>Other</b>	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.
<b>Respiratory protection</b>	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	No information available.
<b>Delimitation and monitoring of the environmental exposition</b>	not determined

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>Form</b>	liquid
<b>Color</b>	colourless
<b>Odor</b>	pungent
<b>Odour threshold</b>	No information available.
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	150
<b>Flash point [°C]</b>	87
<b>Flammability (solid, gas) [°C]</b>	No information available.
<b>Lower explosion limit</b>	No information available.
<b>Upper explosion limit</b>	No information available.
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/ml]</b>	1,05
<b>Bulk density [kg/m<sup>3</sup>]</b>	not applicable
<b>Solubility in water</b>	insoluble reacts with water
<b>Partition coefficient [n-octanol/water]</b>	No information available.
<b>Viscosity</b>	not applicable
<b>Relative vapour density determined in air</b>	No information available.
<b>Evaporation speed</b>	No information available.
<b>Melting point [°C]</b>	No information available.
<b>Autoignition temperature [°C]</b>	500
<b>Decomposition temperature [°C]</b>	No information available.

**9.2 Other information**

none

**SECTION 10: Stability and reactivity****10.1 Reactivity**

See SECTION 10.3.

**10.2 Chemical stability**

Stable under normal ambient conditions (ambient temperature).

**10.3 Possibility of hazardous reactions**

Reactions with strong oxidizing agents.  
 Reactions with water.  
 Reactions with amines.  
 Reactions with alcohols.  
 Reactions with alkalies (lyes).

**10.4 Conditions to avoid**

Strong heating.

**10.5 Incompatible materials**

See SECTION 7

**10.6 Hazardous decomposition products**

Irritant gases/vapours.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Product
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, > 5000 mg/kg.
Substance
1,4-Dihydroxybenzene, CAS: 123-31-9
LD50, dermal, Rabbit: 2000 mg/kg.
LD50, oral, Rat: 375 mg/kg.
Ethyl-2-cyanoacrylate, CAS: 7085-85-0
LD50, oral, Rat: > 5000 mg/kg (OECD 401).
LD50, dermal, Rabbit: > 2000 mg/kg (OECD 402).

<b>Serious eye damage/irritation</b>	Toxicological data of complete product are not available. Irritant Calculation method
<b>Skin corrosion/irritation</b>	Toxicological data of complete product are not available. Irritant Calculation method
<b>Respiratory or skin sensitisation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — single exposure</b>	Toxicological data of complete product are not available. May cause respiratory irritation. Calculation method
<b>Specific target organ toxicity — repeated exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Mutagenicity</b>	Based on the available information, the classification criteria are not fulfilled. Does not contain a relevant substance that meets the classification criteria.
<b>Reproduction toxicity</b>	Based on the available information, the classification criteria are not fulfilled. Does not contain a relevant substance that meets the classification criteria.
<b>Carcinogenicity</b>	Based on the available information, the classification criteria are not fulfilled. Does not contain a relevant substance that meets the classification criteria.
<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled.
<b>General remarks</b>	Cyanoacrylates bond skin and eyelids in seconds. In the case of large spills on the skin, superficial burns may occur - treat accordingly. There may be irritation and redness at the site of contact.  Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

**SECTION 12: Ecological information****12.1 Toxicity**

Substance
1,4-Dihydroxybenzene, CAS: 123-31-9
LC50, (96h), fish: 638 µg/L.
EC50, (72h), Algae: 33 - 330 µg/L.
EC50, (48h), Invertebrates: 61 - 134 µg/L.

**12.2 Persistence and degradability**

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not applicable
<b>Biological degradability</b>	not applicable

**12.3 Bioaccumulative potential**

No evidence for bioaccumulation potential.

**12.4 Mobility in soil**

Cured product is immobile.

**12.5 Results of PBT and vPvB assessment**

Based on all available information not to be classified as PBT or vPvB respectively.

**12.6 Other adverse effects**

Ecological data of complete product are not available.  
Do not discharge product unmonitored into the environment.  
Do not allow product to reach the drainage.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product**

Dispose of as hazardous waste.

**Waste no. (recommended)**

080409\*

**Contaminated packaging**

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

**Waste no. (recommended)**

150110\*

**SECTION 14: Transport information****14.1 UN number**

**Transport by land according to ADR/RID** not applicable

**Inland navigation (ADN)** not applicable

**Marine transport in accordance with IMDG** not applicable

**Air transport in accordance with IATA** 3334

**14.2 UN proper shipping name**

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA Aviation regulated liquid, n.o.s. (Cyanoacrylates)[only for more then 0,5]

- Label

**14.3 Transport hazard class(es)**

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA 9

**14.4 Packing group**

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA III

**14.5 Environmental hazards**

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

not applicable



**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

<b>EEC-REGULATIONS</b>	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
<b>TRANSPORT-REGULATIONS</b>	ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)
<b>NATIONAL REGULATIONS (GB):</b>	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- <b>Observe employment restrictions for people</b>	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- <b>VOC (2010/75/CE)</b>	0%

**15.2 Chemical safety assessment**

For the following substances of this preparation a chemical safety assessment has been carried out:

**SECTION 16: Other information****16.1 Hazard statements (SECTION 03)**

H400 Very toxic to aquatic life.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H302 Harmful if swallowed.  
H341 Suspected of causing genetic defects.  
H351 Suspected of causing cancer.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**16.2 Abbreviations and acronyms:**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
ELINCS = European List of Notified Chemical Substances  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV@TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative



**16.3 Other information**

**Customs Tariff**

not determined

**Classification procedure**

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

STOT SE 3: H335 May cause respiratory irritation. (Calculation method)

**Modified position**

none

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