

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****MD-Schraubensicherung 520-290**
Article number: MSS.520.290
UFI: QDYT-E91J-4002-KA2X**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**Adhesive
Sealing material**1.2.2 Uses advised against**

None known.

1.3 Details of the supplier of the safety data sheet**Company** Marston Domsel GmbH
Bergheimer Str. 15
53909 Zülpich / GERMANY
Phone +49 (0) 22 52 94 15 0
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Homepage www.marston-domsel.de
E-mail info@marston-domsel.de**Address enquiries to****Technical information** info@marston-domsel.de**Safety Data Sheet** sdb@chemiebuero.de**1.4 Emergency telephone number****Advisory body** +49 - (0) 6132 - 84463 (24h)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture [REGULATION (GB) CLP]**Eye Irrit. 2: H319 Causes serious eye irritation.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Skin Irrit. 2: H315 Causes skin irritation.**2.2 Label elements**

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms**Signal word** WARNING**Contains:** 2,2'-Ethylenedioxydiethyl dimethacrylate
2-Hydroxyethyl methacrylate
2'-Phenylacetohydrazide**Hazard statements** H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H315 Causes skin irritation.**Precautionary statements** P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
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.
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.
P337+P313 If eye irritation persists: Get medical advice / attention.
P501 Dispose of contents/container in accordance with local/national regulation.

**2.3 Other hazards****Other hazards**

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients**3.1 Substances**

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
35 - 45	2,2'-Ethylenedioxydiethyl dimethacrylate CAS: 109-16-0 GHS/CLP: Skin Sens. 1: H317
30 - 45	2-Hydroxyethyl methacrylate CAS: 868-77-9 GHS/CLP: Eye Irrit. 2: H319 - Skin Sens. 1: H317 - Skin Irrit. 2: H315
< 1	Cumene hydroperoxide CAS: 80-15-9 GHS/CLP: Org. Perox. E: H242 - Acute Tox. 3: H331 - Acute Tox. 4: H302 H312 - STOT RE 2: H373 - Skin Corr. 1B: H314 - Aquatic Chronic 2: H411, M-Factor (acute): 1 SCL [%]: 1 - <10: Skin Irrit. 2: H315, >= 10: Skin Corr. 1B: H314, < 10: STOT SE 3: H335, 3 - <10: Eye Dam. 1: H318, 1 - <3: Eye Irrit. 2: H319
0,1 - < 0,25	2'-Phenylacetohydrazide CAS: 114-83-0 GHS/CLP: Acute Tox. 3: H301 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Skin Sens. 1: H317 - STOT SE 3: H335
0,01 - < 0,05	1,4-Dihydroxybenzene CAS: 123-31-9 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-Factor (acute): 10

Comment on component partsSubstances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.

Skin contactIn case of contact with skin wash off immediately with plenty of water.
Consult a doctor if skin irritation persists.**Eye contact**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.**Ingestion**Get medical advice.
Rinse out mouth and give plenty of water to drink.**4.2 Most important symptoms and effects, both acute and delayed**

No information available.

4.3 Indication of any immediate medical attention and special treatment neededTreat symptomatically.
Forward this sheet to your doctor.

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

Suitable extinguishing media foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Wear full protective suit.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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

Ensure adequate ventilation.
Use personal protective clothing.

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

Take up mechanically.
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.
Open and handle container with care.
Keep away from sources of ignition - refrain from smoking.
Take off contaminated clothing and wash before reuse.
Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.
Use barrier skin cream.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store together with oxidizing agents.
Do not store together with acids.
Keep container in a well-ventilated place.
Keep container tightly closed.
Store in a dry place.
Recommended storage temperature: <25 °C.
Protect from sun.

**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)**

not applicable

DNEL

Substance
2-Hydroxyethyl methacrylate, CAS: 868-77-9
Industrial, dermal, Long-term - local effects, 1,3 mg/kg bw
Industrial, dermal, Long-term - systemic effects, 1,3 mg/kg bw
Industrial, inhalative, Long-term - systemic effects, 4,9 mg/m ³
Industrial, inhalative, Long-term - local effects, 4,9 mg/m ³
general population, dermal, Long-term - systemic effects, 1,3 mg/kg bw
general population, dermal, Long-term - local effects, 1,3 mg/kg bw
general population, inhalative, Long-term - local effects, 4,9 mg/m ³
general population, inhalative, Long-term - systemic effects, 4,9 mg/m ³
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
Industrial, dermal, Long-term - systemic effects, 13.9 mg/kg bw/d (AF=72)
Industrial, inhalative, Long-term - systemic effects, 48.5 mg/m ³ (AF=18)
general population, oral, Long-term - systemic effects, 8.33 mg/kg bw/d (AF=120)
general population, inhalative, Long-term - systemic effects, 14.5 mg/m ³ (AF=69)
general population, dermal, Long-term - systemic effects, 8.33 mg/kg bw/d (AF=120)

PNEC

Substance
2-Hydroxyethyl methacrylate, CAS: 868-77-9
sediment (freshwater), 3,79 mg/kg dw
sewage treatment plants (STP), 10 mg/l
soil, 0,476 mg/kg dw
freshwater, 0,482 mg/l
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
soil, 0,027 mg/kg dw
sediment (seawater), 0,018 mg/kg dw
sediment (freshwater), 0,185 mg/kg dw
sewage treatment plants (STP), 1,7 mg/L (AF=10)
seawater, 0,002 mg/L (AF=10 000)
freshwater, 0,016 mg/L (AF=1000)

**8.2 Exposure controls**

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0,4 mm/ Butyl rubber, >480 min (EN 374-1/-2/-3). In splash contact: > 0,4 mm/ Nitrile rubber, >480 min (EN 374-1/-2/-3).
Skin protection	light protective clothing
Other	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. Avoid contact with eyes and skin.
Respiratory protection	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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

Physical state	pasty
Color	blue
Odor	characteristic
Odour threshold	No information available.
pH-value	3-4
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	> 93
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	1,0-1,1
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	partially soluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	100 - 150 cPs (25°C)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	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 and strong acids.
Polymerization may occur at elevated temperature.

10.4 Conditions to avoid

See SECTION 7.2.
Strong heating.

10.5 Incompatible materials

Various metals.

10.6 Hazardous decomposition products

Irritant gases/vapours.

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

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
1,4-Dihydroxybenzene, CAS: 123-31-9
LD50, oral, Rat, 375 mg/kg
Cumene hydroperoxide, CAS: 80-15-9
LD50, oral, Rat, 382 mg/kg IUCLID
2'-Phenylacetohydrazide, CAS: 114-83-0
LD50, oral, mouse, 270 mg/kg bw (Lit.)
2-Hydroxyethyl methacrylate, CAS: 868-77-9
LD50, oral, Rat, > 5000 mg/kg
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
LD50, oral, Rat, 2000 - 5000 mg/kg bw

Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
1,4-Dihydroxybenzene, CAS: 123-31-9
LD50, dermal, Rabbit, 2000 mg/kg
2-Hydroxyethyl methacrylate, CAS: 868-77-9
LD50, dermal, Rabbit, > 5000 mg/kg
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
LD50, dermal, mouse, > 2000 mg/kg bw

Acute inhalational toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
Cumene hydroperoxide, CAS: 80-15-9
LC50, inhalative, Rat, 220 ppm 4h IUCLID

Serious eye damage/irritation

Toxicological data of complete product are not available.
Irritant
Calculation method

Skin corrosion/irritation

Toxicological data of complete product are not available.
Irritant
Calculation method

Respiratory or skin sensitisation

Toxicological data of complete product are not available.
May cause an allergic skin reaction.
May produce an allergic reaction.
Calculation method

Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled.



Specific target organ toxicity — repeated exposure	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproduction toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
General remarks	

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**

Product
Based on the available information, the classification criteria are not fulfilled.
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
Cumene hydroperoxide, CAS: 80-15-9
LC50, (96h), Oncorhynchus mykiss, 3,9 mg/l
EC50, (24h), Daphnia magna, 7 mg/l
2-Hydroxyethyl methacrylate, CAS: 868-77-9
LC50, (96h), Oryzias latipes, > 100 mg/l (OECD 203)
EC50, (72h), Selenastrum capricornutum, 836 mg/l (OECD 201)
EC50, (48h), Daphnia magna, 380 mg/l (OECD 202)
NOEC, (72h), Selenastrum capricornutum, 400 mg/l (OECD 201)
NOEC, (21d), Daphnia magna, 24,1 mg/l (OECD 202)
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
LC50, (96h), Brachidanio rerio, 16.4 mg/L
EC50, (21d), Daphnia magna, 51.9 mg/L
EC50, (72h), Pseudokirchneriella subcapitata, > 100 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not applicable
Biological degradability	not applicable

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

**12.5 Results of PBT and vPvB assessment**

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment.

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

Waste material must be disposed of in accordance with national regulations.

Product

Dispose of as hazardous waste.

Contaminated packaging

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

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

Transport by land according to ADR/RID	not applicable
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Inland navigation (ADN)	not applicable
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Marine transport in accordance with IMDG	not applicable
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Air transport in accordance with IATA	not applicable
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14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS
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Inland navigation (ADN)	NO DANGEROUS GOODS
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Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
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Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"
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**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 not applicable

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 not applicable

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 Maritime transport in bulk according to IMO instruments

not applicable

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

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- Observe employment restrictions for people Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- VOC (2010/75/CE) not applicable

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****16.1 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
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 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
 IVIS = In vitro irritation score
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LL50 = Median lethal loading
 LQ = Limited Quantities
 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

16.2 Other information

Customs Tariff	not determined
Classification procedure	Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method) Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method) Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Modified position	SECTION 2 deleted: Cumene hydroperoxide SECTION 2 deleted: H335 May cause respiratory irritation. SECTION 2 deleted: STOT SE 3

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