

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****MD-Schraubensicherung 641-270**  
**Article number: MSS.641****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**

<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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**Address enquiries to****Technical information** [info@marston-domsel.de](mailto:info@marston-domsel.de)**Safety Data Sheet** [sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)**1.4 Emergency telephone number****Advisory body** +49 (0)89-19240 (24h) (english)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

Skin Irrit. 2: H315 Causes skin irritation.  
 Eye Irrit. 2: H319 Causes serious eye irritation.  
 Skin Sens. 1: H317 May cause an allergic skin reaction.  
 STOT SE 3: H335 May cause respiratory irritation.  
 Aquatic Chronic 4: H413 May cause long lasting harmful effects to aquatic life.



## 2.2 Label elements

**Hazard pictograms**

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

**Signal word**

WARNING

**Contains:**2-Hydroxyethyl methacrylate  
2,2'-Ethylenedioxydiethyl dimethacrylate  
Cumene hydroperoxide  
2'-Phenylacetohydrazide**Hazard statements**H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H413 May cause long lasting harmful effects to aquatic life.**Precautionary statements**P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
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.  
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.  
P337+P313 If eye irritation persists: Get medical advice / attention.  
P405 Store locked up.  
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

**Product-type:**

The product is a mixture.

Range [%]	Substance
30 - 45	Bisphenol A ethoxylate dimethacrylate
	CAS: 41637-38-1, EINECS/ELINCS: Polymer, Reg-No.: 01-2119980659-17
	GHS/CLP: Aquatic Chronic 4: H413
30 - 45	2-Hydroxyethyl methacrylate
	CAS: 868-77-9, EINECS/ELINCS: 212-782-2, EU-INDEX: 607-124-00-X, Reg-No.: 01-2119490169-29
	GHS/CLP: Eye Irrit. 2: H319 - Skin Sens. 1: H317 - Skin Irrit. 2: H315
1 - 5	2,2'-Ethylenedioxydiethyl dimethacrylate
	CAS: 109-16-0, EINECS/ELINCS: 203-652-6, Reg-No.: 01-2119969287-21
	GHS/CLP: Skin Sens. 1: H317
≤ 1,5	Cumene hydroperoxide
	CAS: 80-15-9, EINECS/ELINCS: 201-254-7, EU-INDEX: 617-002-00-8
	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 = 1
0,1- <0,5	2'-Phenylacetohydrazide
	CAS: 114-83-0, EINECS/ELINCS: 204-055-3
	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, 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

**Comment on component parts**Substances 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**

<b>General information</b>	Change soaked clothing.
<b>Inhalation</b>	Ensure supply of fresh air.
<b>Skin contact</b>	In case of contact with skin wash off immediately with plenty of water. Consult a doctor if skin irritation persists.
<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.
<b>Ingestion</b>	Get medical advice. Do not induce vomiting. 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 needed**Treat symptomatically.  
Forward this sheet to the doctor.**SECTION 5: Fire-fighting measures****5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	foam, dry powder, water spray jet, carbon dioxide
<b>Extinguishing media that must not be used</b>	Full water jet.

**5.2 Special hazards arising from the substance or mixture**Nitrogen oxides (NOx).  
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.  
Contaminated work clothing should not be allowed out of the workplace.  
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, inhalative, Long-term - systemic effects: 4,9 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 1,3 mg/kg bw.
Industrial, inhalative, Long-term - local effects: 4,9 mg/m <sup>3</sup> .
general population, inhalative, Long-term - systemic effects: 4,9 mg/m <sup>3</sup> .
general population, inhalative, Long-term - local effects: 4,9 mg/m <sup>3</sup> .
general population, dermal, Long-term - local effects: 1,3 mg/kg bw.
general population, dermal, Long-term - systemic effects: 1,3 mg/kg bw.
Bisphenol A ethoxylate dimethacrylate, CAS: 41637-38-1
Industrial, dermal, Long-term - systemic effects: 2 mg/kg bw/d (AF=300).
Industrial, inhalative, Long-term - systemic effects: 3.52 mg/m <sup>3</sup> (AF=75).
general population, dermal, Long-term - systemic effects: 1 mg/kg bw/d (AF=600).
general population, inhalative, Long-term - systemic effects: 0.87 mg/m <sup>3</sup> (AF=150).
general population, oral, Long-term - systemic effects: 0.5 mg/kg bw/d (AF=600).
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
Industrial, inhalative, Long-term - systemic effects: 48.5 mg/m <sup>3</sup> (AF=18).
Industrial, dermal, Long-term - systemic effects: 13.9 mg/kg bw/d (AF=72).
general population, oral, Long-term - systemic effects: 8.33 mg/kg bw/d (AF=120).
general population, dermal, Long-term - systemic effects: 8.33 mg/kg bw/d (AF=120).
general population, inhalative, Long-term - systemic effects: 14.5 mg/m <sup>3</sup> (AF=69).

**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.
Bisphenol A ethoxylate dimethacrylate, CAS: 41637-38-1
There are no PNEC values established for the substance.,
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
soil, 0.027 mg/kg dw.
sediment (seaater), 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**

<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: > 0,4mm/ Butyl rubber, >480 min (EN 374-1/-2/-3). In splash contact: > 0,4mm/ Nitrile rubber, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	light protective clothing
<b>Other</b>	Avoid contact with eyes and skin. 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.
<b>Respiratory protection</b>	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	See SECTION 6+7.

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

<b>Form</b>	pasty
<b>Color</b>	green
<b>Odor</b>	characteristic
<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>	No information available.
<b>Flash point [°C]</b>	>100
<b>Flammability (solid, gas) [°C]</b>	No information available.
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/ml]</b>	ca. 1,1
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	partially soluble
<b>Partition coefficient [n-octanol/water]</b>	No information available.
<b>Viscosity</b>	400 - 700 mPas (25°C)
<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>	No information available.
<b>Decomposition temperature [°C]</b>	No information available.

**9.2 Other information**

Temperature resistance: -55 - 150 °C

**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 toxicity**

Substance
1,4-Dihydroxybenzene, CAS: 123-31-9
LD50, dermal, Rat: > 900 mg/kg.
LD50, oral, Rat: 302 mg/kg.
Cumene hydroperoxide, CAS: 80-15-9
LD50, oral, Rat: 382 mg/kg IUCLID.
LC50, inhalative, Rat: 220 ppm 4h IUCLID.
2'-Phenylacetohydrazide, CAS: 114-83-0
LD50, oral, mouse: 270 mg/kg bw (Lit.).
2-Hydroxyethyl methacrylate, CAS: 868-77-9
LD50, dermal, Rabbit: > 5000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.
Bisphenol A ethoxylate dimethacrylate, CAS: 41637-38-1
LD50, dermal, Rat: > 2000 mg/kg bw.
LD50, oral, Rat: > 2000 mg/kg bw.
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
LD50, oral, Rat: 2000 - 5000 mg/kg bw.
LD50, dermal, mouse: > 2000 mg/kg bw.

<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>	Toxicological data of complete product are not available. May produce an allergic reaction. Calculation method
<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.
<b>Reproduction toxicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Carcinogenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled.
<b>General remarks</b>	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), Pimephales promelas: 0,044 mg/l (IUCLID).
EC50, (24h), Daphnia magna: 0,12.
IC50, (72h), Pseudokirchneriella subcapitata: 0,335 mg/l (IUCLID).
EL50, Bacteria: 0,038 mg/l/30min (IUCLID).
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, (21d), Daphnia magna: 24,1 mg/l (OECD 202).
NOEC, (72h), Selenastrum capricornutum: 400 mg/l (OECD 201).
Bisphenol A ethoxylate dimethacrylate, CAS: 41637-38-1
Log Kow: 5.30 - 5.62.
EL50, (72h), Pseudokirchneriella subcapitata: > 100 mg/L.
EL50, (48h), Daphnia magna: > 100 mg/L.
LL50, (96h), Brachidanio rerio: > 100 mg/L.
BCF, Log Koc. 3.69 - 3.88 (20°C).
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**

<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 information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Other adverse effects**

Ecological data of complete product are not available.

The product was classified on the basis of the calculation procedure of the preparation directive.

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

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. 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** not applicable**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** NOT CLASSIFIED AS "DANGEROUS GOODS"**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 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****EEC-REGULATIONS** 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014**TRANSPORT-REGULATIONS** DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011).**- 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 Hazard statements  
(SECTION 03)**

H400 Very toxic to aquatic life.  
 H318 Causes serious eye damage.  
 H302 Harmful if swallowed.  
 H341 Suspected of causing genetic defects.  
 H351 Suspected of causing cancer.  
 H413 May cause long lasting harmful effects to aquatic life.  
 H335 May cause respiratory irritation.  
 H301 Toxic if swallowed.  
 H411 Toxic to aquatic life with long lasting effects.  
 H314 Causes severe skin burns and eye damage.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H302+H312 Harmful if swallowed or in contact with skin.  
 H331 Toxic if inhaled.  
 H242 Heating may cause a fire.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye 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**

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)  
 Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)  
 Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)  
 STOT SE 3: H335 May cause respiratory irritation. (Calculation method)  
 Aquatic Chronic 4: H413 May cause long lasting harmful effects to aquatic life. (Calculation method)



**Modified position**

SECTION 2 been added: H413 May cause long lasting harmful effects to aquatic life.

SECTION 2 been added: Aquatic Chronic 4

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