

**SECTION 1: Identification of the substance / preparation and of the company****1.1 Product identifier****MD-Schraubensicherung 585-243**
Article number MSS.585**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 0 22 52 / 94 15 - 0 Fax 0 22 52 / 17 44 Homepage www.marston-domsel.de E-mail info@marston-domsel.de
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Address enquiries to**Technical information** info@marston-domsel.de**Safety Data Sheet** sdb@chemiebuero.de**1.4 Emergency phone****Advisory body** +49 (0)89-19240 (24h) (english)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**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 3: H412 Harmful to aquatic life with long lasting effects.**2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC**Xi, Irritant - R 36/37: Irritating to eyes and respiratory system.
Sensitizing. - R 43: May cause sensitisation by skin contact.
R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms



Signal word

WARNING

Contains:

Methacrylic acid, monoester with Propan-1,2-diole
2,2'-Ethylenedioxydiethyl dimethacrylate
Cumene hydroperoxide
2'-Phenylacetohydrazide

Hazard statements

H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

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.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container to in accordance with local/regional/national/international 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
35 - 45	Methacrylic acid, monoester with Propan-1,2-diole CAS: 27813-02-1, EINECS/ELINCS: 248-666-3 GHS/CLP: Eye Irrit. 2: H319 - Skin Sens. 1: H317 EEC: Xi, R 36-43
20 - 27	Di-"isononyl" phthalate CAS: 28553-12-0, EINECS/ELINCS: 249-079-5
10 - 25	2,2'-Ethylenedioxydiethyl dimethacrylate CAS: 109-16-0, EINECS/ELINCS: 203-652-6 GHS/CLP: Skin Sens. 1: H317 EEC: Xi, R 43
2,5 - <3	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 EEC: O-T-N, R 7-21/22-23-48/20/22-34-51/53
0,1 - <1	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 EEC: Xn, R 22-36/37/38-43

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 and R-phrases: see SECTION 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General information	Change soaked clothing.
Inhalation	Ensure supply of fresh air.
Skin contact	In 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	Supply with medical care. 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.

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 mixtureNitrogen oxides (NO_x).
Unknown 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)**

Range [%]	Substance
20 - 27	Di-"isononyl" phthalate
	CAS: 28553-12-0, EINECS/ELINCS: 249-079-5
	Long-term exposure: 5 mg/m ³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: Butyl rubber, >480 min (EN 374). In splash contact Nitrile rubber, >480 min (EN 374).
Skin protection	Alkali-resistant protective clothing.
Other	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Respiratory protection	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, filter A.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

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

Form	pasty
Color	dark blue
Odor	characteristic
Odour threshold	not determined
pH-value	3-4
pH-value [1%]	not applicable
Boiling point [°C]	not determined not determined
Flash point [°C]	>93
Flammability [°C]	not determined
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,0 - 1,1
Bulk density [kg/m ³]	not applicable
Solubility in water	partially soluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	2000 - 7500 mPas (25°C)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

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 reactionsReactions 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**

Range [%]	Substance
2,5 - <3	Cumene hydroperoxide, CAS: 80-15-9
	LD50, oral, Rat: 382 mg/kg IUCLID.
	LC50, inhalative, Rat: 220 ppm 4h IUCLID.
35 - 45	Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
	LD50, dermal, Rabbit: > 5000 mg/kg (IUCLID).
	LD50, oral, Rat: > 4000 mg/kg (IUCLID).
0,1 - <1	2'-Phenylacetohydrazide, CAS: 114-83-0
	LD50, oral, mouse: 270 mg/kg bw (Lit.).
20 - 27	Di-"isononyl" phthalate, CAS: 28553-12-0
	LD50, dermal, Rabbit: 3160 mg/kg.
	LD50, oral, Rat: 50000 mg/kg.
	LC50, inhalative, 4400 mg/m ³ .
10 - 25	2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
	LD50, oral, Rat: > 2000 mg/kg (Lit.).

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

Toxicological data of complete product are not available.
The product was classified on the basis of the calculation procedure of the preparation directive.

SECTION 12: Ecological information**12.1 Toxicity**

Range [%]	Substance
2,5 - <3	Cumene hydroperoxide, CAS: 80-15-9
	LC50, (96h), Oncorhynchus mykiss: 3,9 mg/l.
	EC50, (24h), Daphnia magna: 7 mg/l.
35 - 45	Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
	LC50, (48h), Leuciscus idus: 493 mg/L (IUCLID).
	EC10, (16h), Pseudomonas putida: 1140 mg/l (IUCLID).
20 - 27	Di-"isononyl" phthalate, CAS: 28553-12-0
	LC50, (96h), Leuciscus idus: > 500 mg/l.
	LC50, (96h), Brachidanio rerio: > 100 mg/l.
	EC50, Scenedesmus subspicatus: > 500 mg/l.
	EC50, (24h), Daphnia magna: > 500 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 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**

See SECTION 14.2 in accordance with UN shipping name

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)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 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	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (1999/13/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 R-phrases (SECTION 3)**

R 36: Irritating to eyes.
R 43: May cause sensitisation by skin contact.
R 7: May cause fire.
R 21/22: Harmful in contact with skin and if swallowed.
R 23: Toxic by inhalation.
R 48/20/22: Harmful - danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R 34: Causes burns.
R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 22: Harmful if swallowed.
R 36/37/38: Irritating to eyes, respiratory system and skin.

16.2 Hazard statements (SECTION 3)

H335 May cause respiratory irritation.
H315 Causes skin 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.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

**16.3 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
 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 ChemicalL Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 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

16.4 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)
 STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

SECTION 2 been added: R 36/37: Irritating to eyes and respiratory system.
 SECTION 2 deleted: R 36/37/38: Irritating to eyes, respiratory system and skin.
 SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 SECTION 4 been added: If eye irritation persists: Get medical advice/attention.
 SECTION 7 been added: Do not eat, drink or smoke when using this product.
 SECTION 7 been added: Take off contaminated clothing and wash before reuse.
 SECTION 7 been added: Contaminated work clothing should not be allowed out of the workplace.

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