

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

Solvent

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 Fax +49 (0) 22 52 17 44 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)89-19240 (24h) (English)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

Flam. Liq. 2: H225 Highly flammable liquid and vapour.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT SE 3: H336 May cause drowsiness or dizziness.

2.2 Label elements

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

Hazard pictograms**Signal word**

DANGER

Contains:

Ethyl acetate

Acetone

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
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.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3 Other hazards**

| | |
|---------------------------------|--|
| Physico-chemical hazards | Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting. |
| Human health dangers | Has a degreasing effect on the skin. |
| 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 |
|-----------|--|
| 50 - 75 | Acetone CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8, Reg-No.: 01-2119471330-49-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 |
| 25 - 50 | Ethyl acetate CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 |

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**

| | |
|----------------------------|---|
| General information | Take off contaminated clothing and wash before reuse. |
| Inhalation | Ensure supply of fresh air. In the event of symptoms seek medical treatment. |
| Skin contact | When in contact with the skin, clean with soap and 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 | Consult a doctor immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting. |

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

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 | Alcohol-resistant foam. Carbon dioxide. Dry powder. Water spray jet. |
| Extinguishing media that must not be used | Full water jet |

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

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO), irritant gases/vapours.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.
Wear full protective suit.

Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use personal protective equipment.
Keep people away and stay on the upwind side.

6.2 Environmental precautions

Do not discharge into the drains. Risk of explosion!
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance with 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.
Provide good room ventilation even at ground level (vapours are heavier than air).
Vacuuming in situ required.
Avoid spilling or spraying in enclosed areas.
Use solvent-resistant equipment.

Keep away from all sources of ignition - Refrain from smoking.
Take precautionary measures against static discharges.
Vapours can form an explosive mixture with air.
Ignitable mixtures can be formed in the empty container.
Ground/bond container and receiving equipment.
Use explosion-proofed equipment/fittings and non-sparkling tools.

Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wash hands before breaks and after work.
Use barrier skin cream.
Take off contaminated clothing and wash before reuse.
Cloths contaminated with product should not be kept in trouser pockets.



7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Provide solvent-resistant and impermeable floor.
Do not store with combustible materials.
Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating and from sun.
Keep in a cool place.
Recommended storage temperature: 15-25 °C.

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 |
| Acetone |
| CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8, Reg-No.: 01-2119471330-49-XXXX |
| Long-term exposure: 500 ppm, 1210 mg/m ³ |
| Short-term exposure (15-minute): 1500 ppm, 3620 mg/m ³ |
| Ethyl acetate |
| CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX |
| Long-term exposure: 200 ppm, 730 mg/m ³ |
| Short-term exposure (15-minute): 400 ppm, 1460 mg/m ³ |

Ingredients with occupational exposure limits to be monitored (EU)

| |
|---|
| Substance / EC LIMIT VALUES |
| Acetone |
| CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8, Reg-No.: 01-2119471330-49-XXXX |
| Eight hours: 500 ppm, 1210 mg/m ³ |
| Ethyl acetate |
| CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX |
| Eight hours: 200 ppm, 734 mg/m ³ |
| Short-term (15-minute): 400 ppm, 1468 mg/m ³ |

DNEL

| |
|---|
| Substance |
| Ethyl acetate, CAS: 141-78-6 |
| Industrial, inhalative, Long-term - systemic effects: 734 mg/m ³ . |
| Industrial, inhalative, Long-term - local effects: 734 mg/m ³ . |
| Industrial, inhalative, Acute - systemic effects: 1468 mg/m ³ . |
| Industrial, inhalative, Acute - local effects: 1468 mg/m ³ . |
| Industrial, dermal, Long-term - systemic effects: 63 mg/kg bw/d. |
| general population, oral, Long-term - systemic effects: 4,5 mg/kg bw/d. |
| general population, inhalative, Acute - local effects: 734 mg/m ³ . |
| general population, inhalative, Acute - systemic effects: 734 mg/m ³ . |
| general population, inhalative, Long-term - systemic effects: 367 mg/m ³ . |
| general population, dermal, Long-term - systemic effects: 37 mg/kg bw/d. |
| general population, inhalative, Long-term - local effects: 367 mg/m ³ . |
| Acetone, CAS: 67-64-1 |
| Industrial, inhalative, Long-term - local effects: 2420 mg/m ³ . |
| Industrial, dermal, Long-term - systemic effects: 186 mg/kg bw/d. |
| Industrial, inhalative, Long-term - systemic effects: 1210 mg/m ³ . |
| general population, oral, Long-term - systemic effects: 62 mg/kg bw/d. |
| general population, dermal, Long-term - systemic effects: 62 mg/kg bw/d. |
| general population, inhalative, Long-term - systemic effects: 200 mg/m ³ . |

PNEC

| |
|------------------------------|
| Substance |
| Ethyl acetate, CAS: 141-78-6 |
| soil, 148 µg/kg soil dw. |



| |
|--|
| sediment (seawater), 115 µg/kg sediment dw. |
| sediment (freshwater), 1,15 mg/kg sediment dw. |
| seawater, 24 µg/L. |
| freshwater, 240 µg/L. |
| oral (food), 200 mg/kg. |
| sewage treatment plants (STP), 650 mg/l. |
| Acetone, CAS: 67-64-1 |
| sewage treatment plants (STP), 100 mg/l. |
| soil, 29,5 mg/kg soil dw. |
| sediment (seawater), 3,04 mg/kg sediment dw. |
| sediment (freshwater), 30,4 mg/kg sediment dw. |
| seawater, 1,06 mg/l. |
| freshwater, 10,6 mg/l. |

8.2 Exposure controls

| | |
|--|--|
| Additional advice on system design | Ensure adequate ventilation on workstation. Use suitable exhaust ventilation. 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 | Tightly fitting goggles. (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 | Solvent-resistant protective clothing (EN 340) |
| 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. Do not breathe vapour/spray. Avoid contact with eyes and skin. |
| Respiratory protection | Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, filter AX (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**

| | |
|---|---------------------------|
| Form | liquid |
| Color | colourless |
| Odor | characteristic |
| Odour threshold | No information available. |
| pH-value | not applicable |
| pH-value [1%] | No information available. |
| Boiling point [°C] | 56 |
| Flash point [°C] | - 19 |
| Flammability (solid, gas) [°C] | 460 |
| Lower explosion limit | 2,1 Vol % |
| Upper explosion limit | 13,0 Vol % |
| Oxidising properties | no |
| Vapour pressure/gas pressure [kPa] | 247 hPa(20°C) |
| Density [g/ml] | 0,82 |
| Bulk density [kg/m ³] | not applicable |
| Solubility in water | partially miscible |
| Partition coefficient [n-octanol/water] | No information available. |
| Viscosity | No information available. |
| Relative vapour density determined in air | No information available. |
| Evaporation speed | No information available. |
| Melting point [°C] | No information available. |
| Autoignition temperature [°C] | no |
| Decomposition temperature [°C] | No information available. |

9.2 Other information

none

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

Forms explosive mixtures with air on intense heating.
Evolution of highly flammable gases/vapours.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.
Reactions with reducing agents.
Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Strong oxidizing agent.



10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| |
|---|
| Product |
| inhalative, Based on the available information, the classification criteria are not fulfilled.: |
| dermal, Based on the available information, the classification criteria are not fulfilled.: |
| oral, Based on the available information, the classification criteria are not fulfilled.: |
| Substance |
| Ethyl acetate, CAS: 141-78-6 |
| LD50, dermal, mouse: 20000 mg/kg. |
| LD50, oral, Rat: 5620 mg/kg. |
| LC50, inhalative, Rat: 50 mg/l (4 h). |
| Acetone, CAS: 67-64-1 |
| LD50, dermal, Rabbit: 20000 mg/kg bw. |
| LD50, oral, Rat: 5800 mg/kg bw. |
| LC50, inhalative, Rat: 76 mg/L (4h). |

| | |
|---|--|
| 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. No classification. Calculation method |
| Respiratory or skin sensitisation | Toxicological data of complete product are not available. No classification. Calculation method |
| Specific target organ toxicity — single exposure | Toxicological data of complete product are not available. Vapours may cause drowsiness and dizziness. Calculation method |
| Specific target organ toxicity — repeated exposure | Based on the available information, the classification criteria are not fulfilled. |
| Mutagenicity | Based on the available information, the classification criteria are not fulfilled. |
| Reproduction toxicity | Based on the available information, the classification criteria are not fulfilled. |
| Carcinogenicity | Based on the available information, the classification criteria are not fulfilled. |
| Aspiration hazard | Based on the available information, the classification criteria are not fulfilled. |
| 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 |
| Ethyl acetate, CAS: 141-78-6 |
| LC50, (96h), Salmo gairdneri: 230 mg/l. |
| LC50, (96h), Pimephales promelas: 230 mg/l. |
| EC50, (48h), Daphnia magna: 164 mg/l. |
| EC50, (48h), Algae: 5600 mg/l. |
| Acetone, CAS: 67-64-1 |
| LC50, (96h), Oncorhynchus mykiss: 6500 mg/L. |
| EC50, (96h), Selenastrum capricornutum: 7500 mg/L. |
| EC50, (48h), Daphnia magna: >100 mg/L. |

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

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.

Do not discharge product unmonitored into the environment or into the drainage.

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.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

070104*

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* packaging containing residues of or contaminated by hazardous substances

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

Transport by land according to ADR/RID 1993

Inland navigation (ADN) 1993

Marine transport in accordance with IMDG 1993

Air transport in accordance with IATA 1993

14.2 UN proper shipping name

Transport by land according to ADR/RID Flammable liquid, n.o.s. (Acetone, Ethyl acetate mixture)

- Classification Code F1

- Label

- ADR LQ 1 I

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D/E)

Inland navigation (ADN) Flammable liquid, n.o.s. (Acetone, Ethyl acetate mixture)

- Classification Code F1

- Label

Marine transport in accordance with IMDG Flammable liquid, n.o.s. (Acetone, Ethyl acetate mixture)

- EMS F-E, S-E

- Label

- IMDG LQ 1 I

Air transport in accordance with IATA Flammable liquid, n.o.s. (Acetone, Ethyl acetate mixture)

- Label

14.3 Transport hazard class(es)

Transport by land according to ADR/RID 3

Inland navigation (ADN) 3

Marine transport in accordance with IMDG 3

Air transport in accordance with IATA 3

**14.4 Packing group**

Transport by land according to ADR/RID II

Inland navigation (ADN) II

Marine transport in accordance with IMDG II

Air transport in accordance with IATA II

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

No information available.

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020)

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)** 100 %

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 3)**

H336 May cause drowsiness or dizziness.

H319 Causes serious eye irritation.

H225 Highly flammable liquid and vapour.

**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
 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
 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

16.3 Other information**Customs Tariff**

not determined

Classification procedure

Flam. Liq. 2: H225 Highly flammable liquid and vapour. (On basis of test data)
 Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)

Modified position

SECTION 8 been added: 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.

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