

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

MD-Aushärtebeschleuniger für CA
Article number: MAC.Y15; MAC.D; MAC.A9
UFI: R3RT-D9CT-3000-C9JF

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Relevant uses**

Activator

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)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:

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.
 P261 Avoid breathing vapours / spray.
 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.
 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**

	none
Human health dangers	Has a degreasing effect on the skin. Frequent persistent contact with the skin can cause skin irritation.
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
95 - < 100	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 - EUH066
0,5 - < 1	N,N-dimethyl-p-toluidine CAS: 99-97-8, EINECS/ELINCS: 202-805-4, EU-INDEX: 612-056-00-9, Reg-No.: 01-2119937766-23-XXXX GHS/CLP: Acute Tox. 3: H301 H311 H331 - STOT RE 2: H373 - Aquatic Chronic 3: H412

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	Change soaked clothing.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off with warm 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

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	Carbon dioxide. Water spray jet. Dry powder. Foam.
Extinguishing media that must not be used	Full water jet.

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

Not combusted hydrocarbons.
Carbon monoxide (CO).

5.3 Advice for firefighters

Wear full protective suit.
Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
Cool containers at risk with water spray jet.

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 clothing.
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.
Do not discharge into the drains. Risk of explosion!

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**

Avoid spilling or spraying in enclosed areas.
Provide good room ventilation even at ground level (vapours are heavier than air).
Use solvent-resistant equipment.
Keep away from all sources of ignition - Refrain from smoking.
Take precautionary measures against static discharges.
Ignitable mixtures can be formed in the empty container.
Use explosion-proofed equipment/fittings and non-sparking tools.
Ground/bond container and receiving equipment.
Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.
Use barrier skin cream.
Contaminated work clothing should not be allowed out of the workplace.
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 together with oxidizing agents.
Protect from heat/overheating.
Keep in a cool place, heat causes increase in pressure and risk of bursting.
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
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

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

DNEL

Substance
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/day
general population, dermal, Long-term - systemic effects, 62 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 200 mg/m ³
N,N-dimethyl-p-toluidine, CAS: 99-97-8
Industrial, dermal, Long-term - systemic effects, 694,167 µg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 1,224 mg/m ³
general population, dermal, Long-term - systemic effects, 347 µg/kg bw/day
general population, oral, Long-term - systemic effects, 173,542 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 301,812 µg/m ³

PNEC

Substance
Acetone, CAS: 67-64-1
soil, 29,5 mg/kg
sediment (seawater), 3,04 mg/kg
sediment (freshwater), 30,4 mg/kg
sewage treatment plants (STP), 100 mg/l
seawater, 1,06 mg/l
freshwater, 10,6 mg/l
N,N-dimethyl-p-toluidine, CAS: 99-97-8
soil, 18,677 - 20,365 mg/kg dw
sewage treatment plants (STP), 1,36 - 4,286 mg/l
sediment (freshwater), 45,378 - 48,245 mg/kg dw
sediment (seawater), 45,378 - 48,245 mg/kg dw
seawater, 1,37 - 15,259 µg/l
freshwater, 13,7 - 152,59 µg/l

**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	Tightly fitting goggles. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0,5 mm; Butyl rubber, >480 min (EN 374-1/-2/-3). In splash contact: > 0,5 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 inhale gases/vapours/aerosols. Avoid contact with eyes and skin.
Respiratory protection	Respiratory protection mask in the event of high concentrations. 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**

Physical state	liquid
Color	colourless transparent
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	56
Flash point [°C]	< 0
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	ca. 2,5 Vol.-%
Upper explosion limit	ca. 14,3 Vol.-%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	ca. 240 hPa (20°C)
Density [g/ml]	ca. 0,79
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	ca. -0,24 log POW
Kinematic viscosity	No information available.
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature	ca. 465
Decomposition temperature [°C]	not applicable
Particle characteristics	No information available.



9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.
No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

Strong heating.
Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

Flammable gases/vapours.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute oral toxicity** not determined

Substance
Acetone, CAS: 67-64-1
LD50, oral, Rat, 5800 mg/kg (OECD 401)
N,N-dimethyl-p-toluidine, CAS: 99-97-8
LD50, oral, mouse, 139 mg/kg
LD50, oral, Rat, 1650 mg/kg (RTECS)

Acute dermal toxicity not determined

Substance
Acetone, CAS: 67-64-1
LD50, dermal, Rabbit, > 15800 mg/kg
N,N-dimethyl-p-toluidine, CAS: 99-97-8
LD50, dermal, Rat, > 2000 mg/kg (Lit.)

Acute inhalational toxicity not determined

Substance
Acetone, CAS: 67-64-1
LC50, inhalative, Rat, 76 mg/l (4h)
N,N-dimethyl-p-toluidine, CAS: 99-97-8
LC50, inhalative, Rat, 1,4 mg/l/4h (GESTIS)

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** Based on the available information, the classification criteria are not fulfilled.**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** Toxicological data of complete product are not available.
No classification.
Calculation method**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** Frequent persistent contact with the skin can cause skin irritation.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
Acetone, CAS: 67-64-1
LC50, (48h), Daphnia pulex, 8800 mg/l
LC50, (96h), Oncorhynchus mykiss, 5540 mg/l
NOEC, (96h), Algae, 430 mg/l
N,N-dimethyl-p-toluidine, CAS: 99-97-8
LC50, (96h), fish, 46-53 mg/l (Lit.)
EC50, (72h), Algae, 22 - 24,37 mg/l
EC50, (48h), Daphnia magna, 13,7 mg/l

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not applicable
Biological degradability	The product is biodegradable.

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 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.
In according to RoHS!

Waste no. (recommended) 080409*
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 or ID number**

Transport by land according to ADR/RID 1090

Inland navigation (ADN) 1090

Marine transport in accordance with IMDG 1090

Air transport in accordance with IATA 1090

**14.2 UN proper shipping name**

Transport by land according to ADR/RID	Acetone, solution
- 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)	Acetone, solution
- Classification Code	F1
- Label	

Marine transport in accordance with IMDG	Acetone, solution
- EMS	F-E, S-D
- Label	
- IMDG LQ	1 I

Air transport in accordance with IATA	Acetone, solution
- 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 Maritime transport in bulk according to IMO instruments

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) 2020/878; (EU) 2016/131; (EU) 517/2014
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).
- 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)	99,5 % (786 g/l)

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)**

H412 Harmful to aquatic life with long lasting effects.
H373 May cause damage to organs through prolonged or repeated exposure.
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
EUH066 Repeated exposure may cause skin dryness or cracking.
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
 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

16.3 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

none

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