Marston Domsel GmbH

53909 Zülpich



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

MD-mix Stahl/Metall, Alu, Wasser, Kupfer Article number: MIX

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

1.2.1 Relevant uses

Adhesive

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]

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.

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms

!>

Signal word WARNING

Contains: Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular

weight ≤ 700)

3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-

sulfanylpropane-1,2-diol

Hazard statements H315 Causes skin irritation.

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

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.

P280 Wear protective gloves / eye protection / face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

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.

P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling EUH205 Contains epoxy constituents. May produce an allergic reaction.

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2.3 Other hazards

Human health dangersPeople who are allergic to epoxide should avoid the use of the product.Other hazardsFurther 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
20 - 40	Talc (Mg3H2(SiO3)4)
	CAS: 14807-96-6, EINECS/ELINCS: 238-877-9
20 - 40	Calcium carbonate
	CAS: 471-34-1, EINECS/ELINCS: 207-439-9
10 - < 20	3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-sulfanylpropane-1,2-diol
	CAS: 72244-98-5, EINECS/ELINCS: 615-735-8, Reg-No.: 01-2120118957-46
	GHS/CLP: Skin Sens. 1B: H317 - Aquatic Chronic 3: H412
10 - < 25	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)
	CAS: 25068-38-6, EINECS/ELINCS: 500-033-5, EU-INDEX: 603-074-00-8, Reg-No.: 01-2119456619-26-XXXX
	GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411
< 5	2,4,6-Tris(dimethylaminomethyl)phenol
	CAS: 90-72-2, EINECS/ELINCS: 202-013-9, EU-INDEX: 603-069-00-0, Reg-No.: 01-2119560597-27
	GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319

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 immediately 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.

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 Water spray jet.

Dry powder. Carbon dioxide.

Foam.

Extinguishing media that must not

be used

Full water jet.



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5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

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

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

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

No special measures necessary if used correctly.

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.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep in a cool place.

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance

Talc (Mg3H2(SiO3)4)

CAS: 14807-96-6, EINECS/ELINCS: 238-877-9

Long-term exposure: 1 mg/m³, respirable dust

Calcium carbonate

CAS: 471-34-1, EINECS/ELINCS: 207-439-9

Long-term exposure: 10 mg/m³, inhalable dust

Titanium dioxide

CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, Reg-No.: 01-2119489379-17-XXXX

Long-term exposure: 4 mg/m³, respirable; total inhalable: TWA=10 mg/m³

DNEL

Substance

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6

Industrial, dermal, Long-term - systemic effects: 8,33 mg/kg bw/d.

Industrial, inhalative, Long-term - systemic effects: 12,25 mg/m3.

Industrial, inhalative, Acute - systemic effects: 12,25 mg/m³.

Industrial, dermal, Acute - local effects: 8,33 mg/kg bw/d.

general population, oral, Acute - local effects: 0,75 mg/kg bw/d.

general population, oral, Long-term - systemic effects: 0,75 mg/kg bw/d.

general population, dermal, Long-term - systemic effects: 3,571 mg/kg bw/d.

general population, dermal, Acute - local effects: 3,571 mg/kg bw/d.

3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-sulfanylpropane-1,2-diol, CAS: 72244-98-5

Industrial, dermal, Long-term - systemic effects: 2.7 mg/kg bw/d (AF=90).

Industrial, inhalative, Long-term - systemic effects: 22 mg/m³ (AF=6).

general population, inhalative, Long-term - systemic effects: 6.52 mg/m³ (AF=10).

general population, dermal, Long-term - systemic effects: 1.61 mg/kg bw/d (AF=150).

PNEC

Substance

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6

oral (food), 11 mg/kg.

seawater, 0,0006 mg/l.

sewage treatment plants (STP), 10 mg/l.

freshwater, 0,006 mg/l.

soil, 0,196 mg/l.

sediment (seaater), 0,0996 mg/l.

sediment (freshwater), 0,996 mg/l.

3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-sulfanylpropane-1,2-diol, CAS: 72244-98-5

sediment (seaater), 32 µg/kg dw.

sediment (freshwater), 322 µg/kg dw.

sewage treatment plants (STP), 10 mg/l (AF=100).

seawater, 7µg/I (AF=500).

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freshwater, 70µg/l (AF=50)

soil, 23 µg/kg dw.

2,4,6-Tris(dimethylaminomethyl)phenol, CAS: 90-72-2

seawater, 0.008 mg/l (AF= 10 000)

sewage treatment plants (STP), 0.2 mg/l (AF= 10)

freshwater, 0.084 mg/l (AF= 1000)

8.2 **Exposure controls**

Additional advice on system design Ensure adequate ventilation on workstation.

Safety glasses. (EN 166:2001) Eye protection

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 not applicable

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 vapours.

Avoid contact with eyes and skin.

not applicable Respiratory protection Thermal hazards not applicable See SECTION 6+7. Delimitation and monitoring of the

environmental exposition

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form pasty Color various Odor characteristic

Odour threshold No information available.

pH-value not applicable pH-value [1%] not applicable

Boiling point [°C] No information available.

Flash point [°C] > 100

Flammability (solid, gas) [°C] No information available.

Lower explosion limit not applicable Upper explosion limit not applicable

Oxidising properties

Vapour pressure/gas pressure [kPa] No information available.

Density [g/ml] 1.9 - 2.09 Bulk density [kg/m³] not applicable Solubility in water immiscible

Partition coefficient [n-octanol/water] No information available.

Viscosity not applicable

Relative vapour density determined

in air

No information available.

No information available. **Evaporation speed** Melting point [°C] No information available. Autoignition temperature [°C] No information available. Decomposition temperature [°C] No information available.

Safety Data Sheet 1907/2006/EC - REACH (GB) -mix Stahl/Metall, Alu, Wasser, Kupfer Article number MIX

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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 oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See SECTION 7

10.6 Hazardous decomposition products

No hazardous decomposition products known.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product

ATE-mix, dermal, > 2000 mg/kg bw.

ATE-mix, oral, > 2000 mg/kg bw.

Substance

Calcium carbonate, CAS: 471-34-1

LD50, oral, Rat: 6450 mg/kg bw (IUCLID)

LC0, inhalative, Rat: 0,0812 mg/L (90 min) (IUCLID).

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6

LD50, dermal, Rabbit: 23000 mg/kg.

LD50, oral, Rat: > 15000 mg/kg.

LC50, inhalativ (mist), > 5,01 mg/l/4h.

3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-sulfanylpropane-1,2-diol, CAS: 72244-98-5

LD50, dermal, Rabbit: > 10 200 mg/kg bw.

LD50, oral, Rat: 2600 mg/kg bw.

LC50, inhalative, Rat: > 0.1 mg/l.

Serious eye damage/irritation Toxicological data of complete product are not available.

Irritant

Calculation method

Skin corrosion/irritationToxicological data of complete product are not available.

Irritant

Calculation method

Respiratory or skin sensitisation Toxicological data of complete product are not available.

Sensitizing.

Calculation method

Specific target organ toxicity —

single exposure

Based on available data, the classification criteria are not met.

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.



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SECTION 12: Ecological information

12.1 Toxicity

Substance

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-

38-6

LC50, (96h), Oncorhynchus mykiss: 2 mg/l.

EC50, (48h), Daphnia magna: 1,8 mg/l.

IC50, Bacteria: > 42,6 mg/l (18 h).

ErC50, (72h), Selenastrum capricornutum: 11 mg/l.

Talc (Mg3H2(SiO3)4), CAS: 14807-96-6

LC50, (24h), Brachidanio rerio: >100 mg/L (IUCLID).

 $3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl] propoxy] propan-1-ol;\ 3-sulfanylpropane-1,2-diol,\ CAS:$

72244-98-5

LC50, (96h), Danio rerio: 87 mg/l.

EC50, (21d), Daphnia magna: 3,5 mg/l.

EC50, (48h), Daphnia magna: 12 mg/l

ErC50, (72h), Desmodesmus subspicatus: > 733 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

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c 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) 080409*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110*



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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

NO DANGEROUS GOODS

ADR/RID

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

MDG

not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with

not applicable

IMDG

Air transport in accordance with IATA not applicable



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14.5 Environmental hazards

Inland navigation (ADN)

Transport by land according to

ADR/RID

no

Marine transport in accordance with IMDG

MIDG

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 (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

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

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)

H302 Harmful if swallowed.

H412 Harmful to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H315 Causes skin irritation.



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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

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 39073000

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)

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position none

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