

according to Regulation (EC) No 1907/2006

MD-Mix Stahl/Metall, Alu, Wasser, Kupfer

Revision date: 17.04.2023

Product code: MIX

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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

Further trade names

MIX.S MD-Mix Stahl/Metall MIX.A MD-Mix Aluminium MIX.W MD-Mix Wasser MIX.K MD-Mix Kupfer

UFI:

J1PT-79T8-R004-G3JW

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

Use of the substance/mixture

Adhesives and sealants

1.3. Details of the supplier of the safety data sheet

Company name:	Marston-Domsel GmbH	
Street:	Bergheimer Str. 15	
Place:	53909 Zülpich	
Telephone:	+49 (0) 22 52 94 15 - 0	Telefax:+49 (0) 22 52 17 44
e-mail:	info@marston-domsel.de	
Contact person:	Qualitätsmanagement	
e-mail:	QM@marston-domsel.de	
Internet:	www.marston-domsel.de	
1.4. Emergency telephone	Emergency CONTACT (24-Hour-Nur	mber): GBK GmbH +49 (0)6132-84463

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

bis-[4-(2,3-epoxipropoxi)phenyl]propane

Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide Warning

Signal word:

Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.



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Precautionary statements

· · · · · · · · · · · · · · · · · · ·	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling of certain mixtures

Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

EUH212 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

Resulting from the use of the product: reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) Contains epoxy constituents. May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) N	o 1272/2008)		
1675-54-3	bis-[4-(2,3-epoxipropoxi)phenyl]p	ropane		10 - < 20 %
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sen	s. 1, Aquatic Chronic 2; H315 H319	9 H317 H411	
72244-98-5	Reaction products of pentaerythr	tol, propoxylated and 1-chloro-2,3-	epoxypropane with hydrogen sulfide	10 - < 20 %
	701-196-7		01-2120118957-46	
	Skin Sens. 1B, Aquatic Chronic 3	; H317 H412		
90-72-2	2,4,6-tris(dimethylaminomethyl)p	henol		< 5 %
	202-013-9	603-069-00-0	01-2119560597-27	
	Acute Tox. 4, Skin Irrit. 2, Eye Irr	t. 2; H302 H315 H319		
13463-67-7	titanium dioxide			1 - < 5 %
	236-675-5		01-2119489379-17	
		•	·	

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
1675-54-3	216-823-5	bis-[4-(2,3-epoxipropoxi)phenyl]propane	10 - < 20 %
	Skin Irrit. 2; H	315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
72244-98-5	701-196-7	Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide	10 - < 20 %
	dermal: LD50) = > 10200 mg/kg; oral: LD50 = 2600 mg/kg	
90-72-2	202-013-9	2,4,6-tris(dimethylaminomethyl)phenol	< 5 %
	oral: ATE = 5	500 mg/kg	
13463-67-7	236-675-5	titanium dioxide	1 - < 5 %
	inhalation: L0	C50 = > 6,8 mg/l (dusts or mists); oral: LD50 = > 10000 mg/kg	



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Further Information

titanium dioxide: Particle size: > 10 µm

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Take off immediately all contaminated clothing and wash it before reuse.

After inhalation

Remove casualty to fresh air and keep warm and at rest. If unconscious but breathing normally, place in recovery position and seek medical advice. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water. In case of skin reactions, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Get medical advice/attention if you feel unwell.

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: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, Carbon dioxide (CO2), Dry extinguishing powder Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic (Carbon monoxide Carbon dioxide (CO2))

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment.



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For emergency responders

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

For cleaning up

Take up mechanically, placing in appropriate containers for disposal. Treat the recovered material as prescribed in the section on waste disposal.

Other information

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Keep away from: Food and feedingstuffs Protect from direct sunlight. Do not store together with: Oxidizing agent

Further information on storage conditions

Recommended storage temperature: 5 - 25°C

7.3. Specific end use(s)

Adhesives and sealants

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
72244-98-5	Reaction products of pentaerythritol, propoxylated and 1	-chloro-2,3-epoxyprop	ane with hydrogen su	lfide
Worker DNEL,	long-term	dermal	systemic	2,7 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	22 mg/m ³
Consumer DN	EL, long-term	inhalation	systemic	6,52 mg/m³
Consumer DN	EL, long-term	oral	systemic	1,9 mg/kg bw/day
Consumer DN	EL, long-term	dermal	systemic	1,61 mg/kg bw/day

PNEC values

CAS No	Name of agent	
Environmenta	l compartment	Value
72244-98-5	Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen s	ulfide
Freshwater		0,07 mg/l
Marine water		0,007 mg/l
Freshwater se	diment	0,322 mg/kg
Marine sedime	ent	0,032 mg/kg
Micro-organis	ns in sewage treatment plants (STP)	10 mg/l
Soil		0,023 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls







Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. (EN 166)

Hand protection

Wear suitable gloves. (EN ISO 374)

By long-term hand contact Suitable material: Butyl caoutchouc (butyl rubber) Thickness of the glove material: > 0,4mm Permeation time (maximum wear duration): > 480 min.

By short-term hand contact Suitable material: NBR (Nitrile rubber) Thickness of the glove material: > 0,4mm Permeation time (maximum wear duration): > 4800 min.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the



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specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazards

No information available.

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Diversional state		
Physical state:	solid (Paste)	
Colour:	diverse	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		not determined
boiling range:		
Flammability:		Non-flammable.
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		> 100 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		not determined
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density:		1,9 - 2,09 g/cm³
Relative vapour density:		not determined
Particle characteristics:		not applicable
2 Other information		

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Protect against: Heat, Frost



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10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic (Carbon monoxide Carbon dioxide (CO2))

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

ATEmix calculated

ATE (oral) 10020,0 mg/kg

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
72244-98-5	Reaction products of per	Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide					
	oral	LD50 mg/kg	2600	Rat	Manufacturer		
	dermal	LD50 mg/kg	> 10200	Rabbit	Manufacturer		
90-72-2	2,4,6-tris(dimethylamino	methyl)phen	ol				
	oral	ATE	500 mg/kg				
13463-67-7	titanium dioxide						
	oral	LD50 mg/kg	> 10000	Rat	Manufacturer		
	inhalation (4 h) dust/mist	LC50	> 6,8 mg/l	Rat	Manufacturer		

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (bis-[4-(2,3-epoxipropoxi)phenyl]propane; Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide)

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Information on likely routes of exposure

oral, dermal, inhalative, Eye contact

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information



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12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
72244-98-5	Reaction products of pen	taerythrito	ol, propoxylate	ed and 1	-chloro-2,3-epoxypropar	ne with hydrogen sulf	de
	Acute fish toxicity	LC50	87 mg/l	96 h	Danio rerio (zebrafish)	Manufacturer	
	Acute crustacea toxicity	EC50	12 mg/l		Daphnia magna (Big water flea)	Manufacturer	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.



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14.4. Packing group:	No dangerous good in sense of this transport regulation.	
nland waterways transport (ADN) 14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Marine transport (IMDG)	5 5 1 5	
<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
ENVIRONMENTALLY HAZARDOUS: 14.6. Special precautions for user No information available. 14.7. Maritime transport in bulk accordin not applicable		
 14.6. Special precautions for user No information available. 14.7. Maritime transport in bulk according 	ng to IMO instruments	
 14.6. Special precautions for user No information available. 14.7. Maritime transport in bulk accordin not applicable SECTION 15: Regulatory information 	ng to IMO instruments	
 14.6. Special precautions for user No information available. 14.7. Maritime transport in bulk accordin not applicable SECTION 15: Regulatory information 	ng to IMO instruments n	_
 14.6. Special precautions for user No information available. 14.7. Maritime transport in bulk accordin not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental r 	ng to IMO instruments n regulations/legislation specific for the substance or mixture	
 I4.6. Special precautions for user No information available. I4.7. Maritime transport in bulk accordin not applicable SECTION 15: Regulatory information I5.1. Safety, health and environmental r EU regulatory information Restrictions on use (REACH, annex XV 	ng to IMO instruments n regulations/legislation specific for the substance or mixture	
 I4.6. Special precautions for user No information available. I4.7. Maritime transport in bulk accordin not applicable SECTION 15: Regulatory information I5.1. Safety, health and environmental r EU regulatory information Restrictions on use (REACH, annex XV Entry 3, Entry 75 Information according to 2012/18/EU 	ng to IMO instruments n regulations/legislation specific for the substance or mixture /ll):	
 I4.6. Special precautions for user No information available. I4.7. Maritime transport in bulk accordin not applicable SECTION 15: Regulatory information I5.1. Safety, health and environmental r EU regulatory information Restrictions on use (REACH, annex XV Entry 3, Entry 75 Information according to 2012/18/EU (SEVESO III): 	ng to IMO instruments n regulations/legislation specific for the substance or mixture /ll):	ictions under
 I4.6. Special precautions for user No information available. I4.7. Maritime transport in bulk accordin not applicable SECTION 15: Regulatory information I5.1. Safety, health and environmental r EU regulatory information Restrictions on use (REACH, annex XV Entry 3, Entry 75 Information according to 2012/18/EU (SEVESO III): National regulatory information 	n regulations/legislation specific for the substance or mixture (II): Not subject to 2012/18/EU (SEVESO III) Observe restrictions to employment for juveniles according to the work protection guideline' (94/33/EC). Observe employment restr the Maternity Protection Directive (92/85/EEC) for expectant or no	ictions under

SECTION 16: Other information

Abbreviations and acronyms

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration



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ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Verv High Concern ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

12 Harmful if swallowed.	
5 Causes skin irritation.	
7 May cause an allergic skin reaction.	
9 Causes serious eye irritation.	
1 Toxic to aquatic life with long lasting effects.	
2 Harmful to aquatic life with long lasting effects.	
H212 Warning! Hazardous respirable dust may be formed when used. Do not breathe du	ust.
 Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. 	JS

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)