Safety Data Sheet 1907/2006/EC - REACH (GB) D-mix Stahl/Metall + Aluminium Marston Domsel GmbH

53909 Zülpich

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SEC	TION 1: Identification of the subs	tance / preparation and of the co	mpany	
1.1	Product identifier			
		MD-mix Stahl/Metall + Alum	inium	
1.2	Relevant identified uses of the s	ubstance or mixture and uses ad	lvised against	
1.2.1	Relevant uses			
		Adhesive		
1.2.2	2 Uses advised against			
		None known.		
1.3	Details of the supplier of the saf	ety data sheet		
	Company	Marston Domsel GmbH		
		Bergheimer Str. 15		
		53909 Zülpich / GERMANY Phone 0 22 52 / 94 15 - 0		
		Findle 0 22 52 / 94 15 - 0 Fax 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 phone			
	Advisory body	+49 (0) 89-19240 (24h) (english)		
SEC	TION 2: Hazards identification			

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

see SECTION 16

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Hazard symbols

×

R-phrases

Irritant R 36/38: Irritating to eyes and skin. 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.

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

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2.2 Label elements

Labelling according to Regulation 67/548/EEC or 1999/45/EC
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Ha	azard symbols	*
		Irritant
Co	ontains:	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)
R	phrases	R 36/38: Irritating to eyes and skin. 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.
S-	phrases	 S 2: Keep out of the reach of children. S 24/25: Avoid contact with skin and eyes. S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 28.2: After contact with skin, wash immediately with plenty of water and soap. S 37: Wear suitable gloves. S 46: If swallowed, seek medical advice immediately and show this container or label.
S	pecial labelling	Contains epoxy-containing compounds. Observe manufacturer's instructions.
2.3 O	ther hazards	

Other hazards

Other hazards	none
SECTION 3: Composition / Informat	on on ingredients

3.1 Product-type:

The product is a mixture.

Range [%] Su	ubstance	
5 -< 25 Re	eaction product: b	isphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)
CA	AS: 25068-38-6, E	EINECS/ELINCS: 500-033-5, EU-INDEX: 603-074-00-8
Gł	HS/CLP: Eye Irrit.	2 - H319 - Skin Irrit. 2 - H315 - Skin Sens. 1 - H317 - Aquatic Chronic 2 - H411
EE	EC: Xi-N, R 36/38	-43-51/53
1 - < 20 2,4	4,6-Tris(dimethyla	aminomethyl)phenol
CA	AS: 90-72-2, EINE	ECS/ELINCS: 202-013-9, EU-INDEX: 603-069-00-0
GI	HS/CLP: Acute To	ox. 4 - H302 - Eye Irrit. 2 - H319 - Skin Irrit. 2 - H315
EE	EC: Xn, R 36/38-2	2
Comment on compor	nent parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For the wording of the listed risk phrases refer to SECTION 16.
ECTION 4: First aid me	asures	
1 Description of first	aid measures	
General information		Change soaked clothing.
Inhalation		Ensure supply of fresh air.
		In the event of symptoms seek for medical treatment.
Skin contact		In the event of symptoms seek for medical treatment. In case of contact with skin wash off immediately with soap and water.
Skin contact		In case of contact with skin wash off immediately with soap and water.
		In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact		In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
		In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact Ingestion	nptoms and ef	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Eye contact Ingestion	mptoms and ef	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. Consult a doctor immediately.
Eye contact Ingestion 2 Most important syr		In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. Consult a doctor immediately. fects, both acute and delayed

Forward this sheet to the doctor.

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SEC	TION 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.
5.2	Special hazards arising from the	substance or mixture
		Unknown risk of formation of toxic pyrolysis products.
5.3	Advice for firefighters	
5.5	Advice for menginers	Use self-contained breathing apparatus.
		Fire residues and contaminated firefighting water must be disposed of in accordance within
		the local regulations.
SEC	CTION 6: Accidental release measu	Ires
6.1	Personal precautions, protective	equipment and emergency procedures High risk of slipping due to leakage/spillage of product.
		right lisk 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 contain	oment and cleaning up
0.0		Take up mechanically.
		Dispose of absorbed material in accordance within the regulations.
6.4	Reference to other sections	
0.4	Reference to other sections	See SECTION 8+13
850	TION 7. Handling and starage	
SEC	CTION 7: Handling and storage	
7.1	Precautions for safe handling	
		No special measures necessary if used correctly.
7.2	Conditions for safe storage, incl	uding 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
SEC	CTION 8: Exposure controls / perso	onal protection
8.1	Control parameters	
0.1	Ingredients with occupational exposure limits to be monitored (GB)
	Range [%] Substance	
	20 - < 40 Talc (Mg3H2(SiO3)4)
	CA C: 14907 0C C	

CAS: 14807-96-6, EINECS/ELINCS: 238-877-9 Long-term exposure: 1 mg/m³, respirable dust

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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	not applicable
	Other	Do not inhale vapours. 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.
		Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Use barrier skin cream.
	Respiratory protection	not applicable
	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	I chemical properties
	Form	pasty
	Color	grey
	Odor	characteristic
	Odour threshold	not determined
	pH-value	not applicable
	pH-value [1%]	not applicable
	Boiling point [°C]	not determined
	Flash point [°C]	> 200
	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]	1,85
	Bulk density [kg/m³]	not applicable
	Solubility in water	virtually insoluble
	Partition coefficient [n-octanol/water]	not determined
	Viscosity	not applicable
	Relative vapour density determined in air	not determined
	Evaporation speed	not determined
	Melting point [°C]	not determined
	Autoignition temperature [°C]	not determined
	Decomposition temperature	not determined
9.2	Other information	
		none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

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Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

See SECTION 7

10.5 Incompatible materials

See SECTION 7

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
1 - < 20	2,4,6-Tris(dimethylaminomethyl)phenol, CAS: 90-72-2
	LD50, oral, Rat: 1916-2455 mg/kg IUCLID.
	LD50, dermal, Rat: 1280 mg/kg IUCLID.
	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068- 38-6
	LD50, oral, Rat: 13600 mg/kg (Lit.).
Serious eye damag	ge/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	
	The product was classified on the basis of the calculation procedure of the preparation directive.

SECTION 12: Ecological information

12.1 Toxicity

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 informations available.

12.4 Mobility in soil

No informations available.

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12.5 Results of PBT and vPvB assessment

No informations available.

12.6 Other adverse effects

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

Contaminated packaging	Packaging that cannot be cleaned should be disposed of as for product
containinated packaging	Packaging that cannot be cleaned should be disposed of as for product.
	Uncontaminated packaging may be taken for recycling.
Waste no. (recommended)	150110*

SECTION 14: Transport information

14.1 UN number

See SECTION14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS" IMDG

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See SECTION14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION14.2 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

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SECTION 15: Regulatory inform	ation
15.1 Safety, health and environ	mental 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 (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2012).
NATIONAL REGULATIONS (G	 EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4
15.2 Chemical safety assessme	ent
	Chemical safety assessments for substances in this mixture were not carried out.
SECTION 16: Other information	S
16.1 Classification according to	Regulation (EC) No 1272/2008 [CLP]
Hazard pictograms	
Signal word	WARNING
	Skin Sens. 1 - H315 Causes skin irritation. Aquatic Chronic 3 - H319 Causes serious eye irritation. Skin Irrit. 2 - H317 May cause an allergic skin reaction. Eye Irrit. 2 - H412 Harmful to aquatic life with long lasting effects.
Classification procedure	Classification according to conversion table Annex VII 1272/2008/EC
16.2 R-phrases (SECTION 03)	
	R 22: Harmful if swallowed. R 36/38: Irritating to eyes and skin. R 43: May cause sensitisation by skin contact. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
16.3 Hazard statements (SECTI	ON 03)
,	H302 Harmful if swallowed. H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.

16.4 Abbreviations and acronyms: ADR = Accord européen relatif au transport international des marchandises Dangereuses par Roure RID = Réglement concernant le transport international derroviaire de marchandises dangereuses par voie de navigation intérieure RDN = 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 Nimmum Effect Level DNEL = Derived Nimmum Effect Level ECS = European Chemical Subtracts European Chemical Subtraces ELINCS = European Chemicals Substances ELINCS = European Chemicals Substances ELINCS = European Chemicals Substances ELINCS = European Chemicals Substances BLNCS = European Chemicals Substances ELINCS = European Chemicals Substances BLNCS = European Chemicals Bureau ECS = Heropean Chemicals Substances BLNCS = European Chemicals Substances ELINCS = European Chemicals Substances BLNCS = European Chemicals Bureau ECS = European Chemicals Substances BLNCS = European Chemicals Bureau ELINCS = European Chemicals Substances ELINCS = European Chemicals Substances ELINCS = European Chemicals Substances ELINCS = European Chemicals Substances ELINCS = European Chemicals Substances ELINCS = European Inventory of Cassification and Labelling of	Created: 09.05.2012, Revision 09.05.2012	Version 02. Supersedes version: 01 Page 8	8/8
RouteRouteRD- Réglement 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 Mo Effect Level DMEL = Derived Mo Effect Level EC60 = Median effective concentration EC62 = European Chemicals Bureau EEC = European Chemicals Bureau EEC = European Chemicals Bureau EEC = European Chemicals Substances ELINCES = European Inventory of Existing Commercial Chemical Substances ELINCES = European Inventory of Existing Commercial Chemical Substances ELINCES = European Inventory of Existing Commercial Chemicals IAT a International Air Transport Association IBC-Code = International Maritime Code for the Construction and Labelling of Chemicals IAT a International Maritime Code for Congregous Goods IUCLID = International Uniform Chemical Information Database LC50 = Lethal concentration, 50% IMDG = International Uniform Chemical Information Database LC50 = Lethal concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals NARPOL = International Comerciation net exposure limit VOC < Volatile Organic compounds VPW = very Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals NPEC = Predicted No-Effect Concentration PNEC = Predicted No-Ef	16.4 Abbreviations and acronyms:		
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 BioaccumulativeModified positionnone16.5Other informations people VOC (1999/13/CE)yes not applicable	16.4 Abbreviations and acronyms:	Route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses pr 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 Chemicals Bureau EEC = European Inventory of Existing Commercial Chemical Substances ELINCS = European Inventory of Existing Commercial 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 MARPOL = International Convention for the Prevention of Marine Pollution from Ships PBT = Persistent, Bioaccumulative and Toxic substance	
16.5 Other informations Observe employment restrictions for yes people VOC (1999/13/CE) not applicable	Modified position	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	
Observe employment restrictions for yes people VOC (1999/13/CE) not applicable	•	Tione	
people NOC (1999/13/CE) Not applicable			
		yes	
Customs Tariff not determined	VOC (1999/13/CE)	not applicable	
	Customs Tariff	not determined	