Printing date 01.06.2015 Revision: 05.02.2015

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

· 1.1 Product identifier

· Trade name: ROMPOX D1 Comp. A

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

No further relevant information available.

- · Application of the substance / the mixture Binder
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

ROMEX Produktions GmbH

Mühlgrabenstraße 19

D-53340 Meckenheim

Tel.: 0049 (0)2225-7032820 *Fax*: 0049 (0)2225-7032828

email: info@romex-rpg.de

- · Informing department: Product Safety Department
- · 1.4 Emergency telephone number:

Giftnotrufzentrale BONN

Tel.: 0049(0)228-19240

gizbn@mailen.meb.uni-bonn.de

www.meb.uni-bonn.de/giftzentrale/

National Poisons Information Service (Birmingham Unit)

Dudley Rd, Birmingham Tel.: 844 892 0111 Mail: mail@npis.org

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to 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 2 H411 Toxic to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms





GHS07 GHS09

- · Signal word Warning
- · Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

reaction product: bisphenol-F-(epichlorhydrin) oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Glycidyl neodecanoate

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 2)

Printing date 01.06.2015 Revision: 05.02.2015

Trade name: ROMPOX D1 Comp. A

(Contd. of page 1)

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment. P264 Wash thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Additional information:

Contains epoxy constituents. May produce an allergic reaction.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description:

Epoxy resin formulation with a bisphenol-A liquid resin base and bisphenol-F liquid resin

· Dangerous components:		
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8 Reg.nr.: 01-2119456619-26-xxxx	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 28064-14-4 EC number: 608-164-0 Reg.nr.: 01-2119454392-40-xxxx	reaction product: bisphenol-F-(epichlorhydrin) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 68609-97-2 EINECS: 271-846-8 Index number: 603-103-00-4 Reg.nr.: 01-2119485289-22-xxxx	oxirane, mono[(C12-14-alkyloxy)methyl] derivs Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-25%
CAS: 26761-45-5 EINECS: 247-979-2 Reg.nr.: 01-2119431597-33-xxxx	Glycidyl neodecanoate Muta. 2, H341; Aquatic Chronic 2, H411; Nskin Sens. 1, H317	< 2.5%

[·] Additional information For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information Instantly remove any clothing soiled by the product.
- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- · After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- · After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
- · After swallowing

Rinse the mouth with water immediately

Seek immediate medical advice.

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Printing date 01.06.2015 Revision: 05.02.2015

Trade name: ROMPOX D1 Comp. A

(Contd. of page 2)

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Information for doctor No particular measures are known treat according to symptoms.
- · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- · For safety reasons unsuitable extinguishing agents Water with a full water jet.
- · 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire

Carbon monoxide (CO)

Carbon dioxide (CO2)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid contact with eyes and skin.

Wear protective clothing.

· 6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

Do not allow to enter the ground/soil.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

· 6.4 Reference to other sections

Clean the accident area carefully.

See Section 13 for information on disposal.

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with the eyes and skin.

- · Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and containers:

Store only in unopened original containers.

Provide floor trough without outlet.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Keep container tightly sealed.

Protect from frost.

Protect from heat and direct sunlight.

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Trade name: ROMPOX D1 Comp. A

(Contd. of page 3)

- · Storage class 10
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs			
25068-38-	6 reaction product: bisphenol weight = 700)	-A-(epichlorhydrin) epoxy resin (number average molecular
Oral	DNEL Langzeit Verbraucher / I	Long-term consumer	0.75 mg/kg/bw/d (-)
Dermal	DNEL - Arbeiter / worker		8.33 mg/kg/bw/d (-)
	DNEL Langzeit Verbraucher / I	Long-term consumer	3.571 mg/kg/bw/d (-)
Inhalative	DNEL Langzeit / long-term		$12.25 \ mg/m^3 (-)$
26761-45-	5 Glycidyl neodecanoate		
Dermal	DNEL - Arbeiter / worker		1.4 mg/kg/bw/d (-)
Inhalative	DNEL - Arbeiter / worker		1.965 mg/m³ (-)
PNECs			
25068-38-	6 reaction product: bisphenol weight = 700)	-A-(epichlorhydrin) epoxy resin (number average molecular
PNEC Lan	gzeit Wasser / Long-term water	0.006 mg/l (Frischw	rasser (freshwater))
		0.006 mg/l (Meerwa	sser (seawater))
26761-45-	5 Glycidyl neodecanoate	•	
PNEC Lan	gzeit Wasser / Long-term water	0.0035 mg/l (Frisch	wasser (freshwater))
		0.35 mg/l (Meerwas	ser (seawater))

- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Take off immediately all contaminated clothing

Store protective clothing separately.

Do not eat, drink or smoke while working.

Use skin protection cream for preventive skin protection.

- · Breathing equipment: Wear a respirator if an aerosol or mist forms.
- · Recommended filter device for short term use:



· Protection of hands:



Only use chemical-protective gloves with CE-labelling of category III.

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Trade name: ROMPOX D1 Comp. A

(Contd. of page 4)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check the permeability prior to each anewed use of the glove.

Preventive skin protection by use of skin-protecting agents is recommended.

· Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Recommended thickness of the material: $\geq > 0.5$ mm mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed

- · As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
- · Not suitable are gloves made of the following materials:

Strong gloves

Leather gloves

· Eye protection:



Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid

Colour: According to product specification

· Odour: Characteristic

· Change in condition

Melting point/Melting range: Not determined Boiling point/Boiling range: > 200 °C

• Flash point: $> 100 \, ^{\circ}C \, (DIN \, 53213)$

· Ignition temperature: 235 °C

· Self-inflammability: Product is not selfigniting.

· Danger of explosion: Product is not explosive.

· Vapour pressure at 20 °C: 0.8 hPa

• **Density at 20** °C 1.12 g/cm³ (ISO 2811-2)

· Solubility in / Miscibility with

Water: Partly miscible

· Viscosity:

dynamic: Not determined. kinematic at 20 °C: 650 s (DIN 53211/4)

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Trade name: ROMPOX D1 Comp. A

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· Solvent content:

Organic solvents: 0.0 %

• 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions none, if used as directed
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: none, if stored and handled correctly.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

· LD/LC50	values the	at are relevant for classification:
25068-38-	6 reactio weight	n product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular = 700)
Oral	LD50	15000 mg/kg (rat)
	NOAEL	50 mg/kg/d (rat)
Dermal	LD50	23000 mg/kg (rab)
28064-14-	4 reaction	n product: bisphenol-F-(epichlorhydrin)
Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rab)
26761-45	5 Glycidy	l neodecanoate
Oral	LD50	9600 mg/kg (rat)
Dermal	LD50	3800 mg/kg (rat)
Inhalative	LC50	> 5000 mg/m3 (rat) (LC50 (4h))

- · Primary irritant effect:
- · Skin corrosion/irritation Irritant to skin and mucous membranes.
- · Serious eye damage/irritation Irritant effect.
- · Respiratory or skin sensitisation Sensitization possible by skin contact.

Daphnientoxizität / Daphnia toxicity 2.8 mg/l (Daphnia magna) (LC50 (48h))

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:	
25068-38-6 reaction product: bi	isphenol-A-(epichlorhydrin) epoxy resin (number average molecular
weight = 700)	
Algentoxizität / Algae toxicity	220 mg/l (Alge) (LC50 (96h))

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Trade name: ROMPOX D1 Comp. A

		(Contd. of page 6
Fischtoxizität / Fish toxicity	3.6 mg/l (Leuciscus idus) (LC50 (96h))	
NOEC	4.2 mg/l (Alge) (72h)	
28064-14-4 reaction product: bisphe	nol-F-(epichlorhydrin)	
Algentoxizität / Algae toxicity	> 1 - < 10 mg/l (Grünalge)	
68609-97-2 oxirane, mono[(C12-14-	alkyloxy)methyl] derivs	
Algentoxizität / Algae toxicity	845 mg/l (Alge) (IC50 (72h))	
Daphnientoxizität / Daphnia toxicity	1 - 10 mg/l (Daphnia magna) (EC50 (48h))	
26761-45-5 Glycidyl neodecanoate		
Algentoxizität / Algae toxicity	10 mg/l (Grünalge) (EC50 (96h))	
Daphnientoxizität / Daphnia toxicity	3.5 mg/l (Daphnia magna) (EC50 (48h))	
Fischtoxizität / Fish toxicity	9.6 mg/l (Goldorfe (Leuciscus idus)) (LC50 (96h))	
Toxizität / Toxicity	1 <lc (wirbellose="" ec="" ic50<10="" l="" mg="" td="" tiere)<=""><td></td></lc>	

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects: Not determined
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation Must be specially treated under adherence to official regulations.

· Europear	n waste catalogue
	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 02 00	wastes from MFSU of other coatings (including ceramic materials)
08 02 99	wastes not otherwise specified

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- · 14.1 UN-Number
- · ADR, IMDG, IATA UN3082

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Printing date 01.06.2015 Revision: 05.02.2015

Trade name: ROMPOX D1 Comp. A

	(Contd. of page
· 14.2 UN proper shipping name	
$\cdot ADR$	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
· IMDG	LIQUID, N.O.S. (epoxy resin) ENVIRONMENTALLY HAZARDOUS SUBSTANCI
· IMDG	LIQUID, N.O.S. (epoxy resin), MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	LIQUID, N.O.S. (epoxy resin)
· 14.3 Transport hazard class(es)	
$\cdot ADR$	
1 1 1 2 2 2 2 3 3 3 3 3 3 3 3 3 3	
·Class	9 (M6) Miscellaneous dangerous substances and articles.
· Label	9
· IMDG, IATA	
1 1 1 1 1 1 1 1 1 1	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substance
· Marine pollutant:	epoxy resin Yes
Marine politicani.	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances ar
Variation National and	articles.
· Kemler Number: · EMS Number:	90 F-A,S-F
· 14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code	x 11 oj Not applicable.
· Transport/Additional information:	
· ADR	
· Excepted quantities (EQ):	EI
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
· Transport category	Maximum net quantity per outer packaging: 1000 ml 3
· Tunnel restriction code	E E
· IMDG	
· Limited quantities (LQ)	5L

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Printing date 01.06.2015 Revision: 05.02.2015

Trade name: ROMPOX D1 Comp. A

	(Contd. of page 8
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin), 9, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations
- · Technical instructions (air):
- · **VOC EU** % 0.00 %
- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Changes made since last issue dated 31.07.2014 at the following points: *

· Relevant phrases

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

· Department issuing data specification sheet:

IGG-AD Ingenieurbüro für Gefahrstoff- und Gefahrgutberatung

Bismarckstraße 10

D-68623 Lampertheim
Fax: 0049-(0)6206-58422 http://www.igg-ad.de info@igg-ad.de

· Contact:

Dr. U. Prinz (u.prinz@igg-ad.de)

Dipl.-Chem. H. Hinse (heidrun.hinse@igg-ad.de)

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Muta. 2: Germ cell mutagenicity, Hazard Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

* * Data compared to the previous version altered.

Printing date 22.12.2015 Revision: 18.11.2015

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

- · 1.1 Product identifier
- · Trade name: ROMPOX D1 Comp. B
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Epoxy resin hardening agent
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

ROMEX Produktions GmbH

Mühlgrabenstraße 19

D-53340 Meckenheim

Tel.: 0049 (0)2225-7032820

Fax: 0049 (0)2225-7032828

email: info@romex-rpg.de

- · Informing department: Product Safety Department
- · 1.4 Emergency telephone number:

Giftnotrufzentrale BONN

Tel.: 0049(0)228-19240

gizbn@mailen.meb.uni-bonn.de

www.meb.uni-bonn.de/giftzentrale/

National Poisons Information Service (Birmingham Unit)

Dudley Rd, Birmingham Tel.: 844 892 0111 Mail: mail@npis.org

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms





GHS05

GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

Benzyl alcohol

Alcohols, C9-16, ethoxylated

3-aminomethyl-3,5,5-trimethylcyclohexylamine

1,3-Cyclohexanedimethanamine

· Hazard statements

H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

(Contd. on page 2)

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Trade name: ROMPOX D1 Comp. B

(Contd. of page 1)

· Precautionary statements

P280 Wear protective gloves/protective clothing/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.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· 2.3 Other hazards

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · **vPvB**: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Epoxy resin hardening agent, formulation on aliphatic polyamine basis

CAS: 100-51-6	Benzyl alcohol	25-50%
EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-xxxx	♦ Acute Tox. 4, H302; Acute Tox. 4, H332	
CAS: 260549-92-6 Polymer	Decanoic acid, compds. with 1,3-benzenedimethanamine-bisphenol A - bisphenol-A diglycidyl etherdiethylenetriamine glycidyl Ph ether Eye Dam. 1, H318	10-25%
CAS: 97043-91-9 Polymer	Alcohols, C9-16, ethoxylated Eye Dam. 1, H318; Acute Tox. 4, H302	2.5-10%
CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9 Reg.nr.: 01-2119514687-32-xxxx	3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. IB, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	2.5-10%
CAS: 2579-20-6 EINECS: 219-941-5 Reg.nr.: 01-2119543741-41-xxxx	1,3-Cyclohexanedimethanamine Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	2.5-10%
CAS: 10563-29-8 EINECS: 234-148-4 Reg.nr.: 01-2119970376-29-xxxx	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine ♦ Skin Corr. 1A, H314; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	2.5-10%

[·] Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information Instantly remove any clothing soiled by the product.
- · After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- · After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
- · After swallowing

Rinse the mouth with water immediately

(Contd. on page 3)

Printing date 22.12.2015 Revision: 18.11.2015

Trade name: ROMPOX D1 Comp. B

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Do not induce vomiting; instantly call for medical help.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Information for doctor No particular measures are known treat according to symptoms.
- · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- · For safety reasons unsuitable extinguishing agents Water with a full water jet.
- · 5.2 Special hazards arising from the substance or mixture

Formation of poisonous gases during heating or in fires.

- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

Avoid contact with eyes and skin.

· 6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

Do not allow to enter the ground/soil.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

· 6.4 Reference to other sections

Clean the accident area carefully.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Keep containers tightly sealed.

Prevent formation of aerosols.

Do not inhale the vapours released during application.

The usual precautionary measures for handling chemicals must be observed.

- · Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and containers:

Store only in unopened original containers.

Provide floor trough without outlet.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Store under dry conditions.

Protect from frost.

· Storage class 8 A

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· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs	51 (D		
CAS: 100-	51-6 Benzyl alcohol		
Oral	DNEL Langzeit Verbraucher / Long-t	erm consumer	5 mg/kg/bw/d (-)
Dermal	DNEL - Arbeiter / worker		9.5 mg/kg/bw/d (-) ((langfristig))
	DNEL Langzeit Verbraucher / Long-t	erm consumer	5.7 mg/kg/bw/d (-)
Inhalative	DNEL - Arbeiter / worker		90 mg/m³ (-) ((langfristig))
	DNEL Langzeit Verbraucher / Long-term consumer		5.7 mg/m3 (-)
CAS: 2855	5-13-2 3-aminomethyl-3,5,5-trimethyl	cyclohexylami	ne
Inhalative	DNEL - Arbeiter / worker		20.1 mg/m³ (-)
PNECs			
CAS: 100-	51-6 Benzyl alcohol		
PNEC Lan	gzeit Wasser / Long-term water 1 mg/	l (Frischwasse	r (freshwater))
	0.1 m	gЛ (Meerwass	er (seawater))
CAS: 2855	5-13-2 3-aminomethyl-3,5,5-trimethyl	cyclohexylami	ne
PNEC Lan	gzeit Wasser / Long-term water 0.06 i	ng/l (Frischwa	usser (freshwater))
	0.006	mo/l (Meerwa	usser (seawater))

- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Use skin protection cream for preventive skin protection.

Do not eat, drink or smoke while working.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes.

Take off immediately all contaminated clothing

Store protective clothing separately.

· Breathing equipment:

Use breathing protection in case of insufficient ventilation.

Wear a respirator if an aerosol or mist forms.

· Recommended filter device for short term use:



Combination filter A-P2

· Protection of hands:



Only use chemical-protective gloves with CE-labelling of category III.

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required.

Check the permeability prior to each anewed use of the glove.

Preventive skin protection by use of skin-protecting agents is recommended.

· Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Recommended thickness of the material: $\geq > 0.5$ mm mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
- · Not suitable are gloves made of the following materials:

Leather gloves

Strong gloves

· Eye protection:



Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid
Colour: Yellowish
Odour: Amine-like

· Change in condition

Melting point/Melting range: Not determined Boiling point/Boiling range: 100 °C

• Flash point: $> 100 \, ^{\circ}C$

· Ignition temperature: 380 °C

· Self-inflammability: Product is not selfigniting.

• Danger of explosion: Product is not explosive.

· Critical values for explosion:

 Lower:
 1.3 Vol %

 Upper:
 13.0 Vol %

· Vapour pressure at 20 °C: 23 hPa

· Density Not determined

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· Solubility in / Miscibility with

Water: mixable

· Viscosity:

dynamic: Not determined.

• 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions none, if used as directed
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

strong acids

strong bases

strong oxidizing agents

· 10.6 Hazardous decomposition products: none, if stored and handled correctly.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

Harmful if swallowed or if inhaled.

· LD/LC50	values that are relevant for classificat	ion:
CAS: 100-	51-6 Benzyl alcohol	
Oral	LD50	1040 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt) (RTECS)
Inhalative	LD50	> 4178 mg/l (rat) (LC50 (4h))
CAS: 9704	3-91-9 Alcohols, C9-16, ethoxylated	
Oral	LD50	>300 mg/kg (rat)
CAS: 2855	-13-2 3-aminomethyl-3,5,5-trimethyl	cyclohexylamine
Oral	LD50	1030 mg/kg (rat)
	NOEL Teratogenität / Teratogenicity	250 mg/kg (rat)
	NOEL maternal	50 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat) (OECD TG 402)
		1840 mg/kg (rab)
Inhalative	LC50/4 h	> 5.01 mg/l (rat) (OECD TG 403)
CAS: 2579	0-20-6 1,3-Cyclohexanedimethanamin	ne
Dermal	LD50	1700 mg/kg (rab)
CAS: 1056	3-29-8 N'-(3-aminopropyl)-N,N-dime	ethylpropane-1,3-diamine
Oral	LD50	681 - 2000 mg/kg (rat)
Dermal	LD50	1310 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

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· Respiratory or skin sensitisation

Fischtoxizität / Fish toxicity

- May cause an allergic skin reaction.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity 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.

12.1 Toxicity Aquatic toxicity:	
CAS: 100-51-6 Benzyl alcohol	
Algentoxizität / Algae toxicity	79 mg/l (Scenedesmus quadicauda) (EC50 (3h))
	770 mg/l (Alge) (ErC50 (72h))
	640 mg/l (Scenedesmus subspicatus) (EC50 (96h))
BSB-5	1550 mg O2/g (-)
BSB5-Wert	1.55 g/g (-)
Bakterientoxizität / Bacteria toxicity	
-	> 658 mg/l (Pseudomonas putida) (EC50 (16h))
Daphnientoxizität / Daphnia toxicity	
	230 mg/l (Daphnia magna) (EC50 (48h))
Fischtoxizität / Fish toxicity	460 mg/l (Pimephales promelas) (LC50 (96h))
·	645 mg/l (Goldorfe (Leuciscus idus)) (LC50 (96h))
closed bottel test	90 % (-)
CAS: 97043-91-9 Alcohols, C9-16,	ethoxylated
BSB-5	774 mg O2/g (_) (EN 1899-1)
CSB	1816 mg O2/g (-) (DIN 38409 H41)
Daphnientoxizität / Daphnia toxicity	3.7 mg/l (daphnia) (EC50 (24h))
Fischtoxizität / Fish toxicity	4.3 mg/l (Goldorfe (Leuciscus idus)) (LC50 (48h))
CAS: 2855-13-2 3-aminomethyl-3,5	5,5-trimethylcyclohexylamine
Algentoxizität / Algae toxicity	50 mg/l (Scenedesmus subspicatus) (EC50 (72h))
Bakterientoxizität / Bacteria toxicity	1120 mg/l (Pseudomonas putida) (EC10 (18h))
Daphnientoxizität / Daphnia toxicity	23 mg/l (Daphnia magna) (EC50 (48h))
Fischtoxizität / Fish toxicity	110 mg/l (Brachydanio rerio) (LC50 (96h))
LC0 (96h)	70 mg/l (Brachydanio rerio)
NOEC	(504h) 3 mg/l (Daphnia magna)
	(72h) 1.5 mg/l (Scenedesmus subspicatus)
CAS: 2579-20-6 1,3-Cyclohexanedi	methanamine
EC50	90 mg/l (Pseudomonas putida)
LC50	130 mg/l (Goldorfe (Leuciscus idus))
CAS: 10563-29-8 N'-(3-aminopropy	rl)-N,N-dimethylpropane-1,3-diamine
Algentoxizität / Algae toxicity	181 mg/l (Pseudomonas putida) (EC50 (16h))
Bakterientoxizität / Bacteria toxicity	> 1000 mg/l (Belebtschlammbakterien) (EC20 (0,5h))

220 mg/l (Leuciscus idus) (LC50 (96h))

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- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects: Not determined
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into soil.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation Must be specially treated under adherence to official regulations.

European	waste	catalogu	e
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08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF
	COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND
	PRINTING INKS

08 02 00 wastes from MFSU of other coatings (including ceramic materials)

08 02 99 wastes not otherwise specified

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

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- 1	SECTION	 		7/7/	

· 14.1 UN-Number · ADR, IMDG, IATA	UN2735
· 14.2 UN proper shipping name · ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (N'-(3-
· IMDG, IATA	aminopropyl)-N,N-dimethylpropane-1,3-diamine) AMINES, LIQUID, CORROSIVE, N.O.S. (1.3-Cyclobexanedimethanamine)

- · 14.3 Transport hazard class(es)
- $\cdot ADR$



• Class 8 (C7) Corrosive substances. • Label 8

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(Contd. of page 8) · IMDG, IATA · Class 8 Corrosive substances. · Label · 14.4 Packing group · ADR, IMDG, IATA II· 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Warning: Corrosive substances. · Kemler Number: · EMS Number: F-A,S-BAlkalis · Segregation groups · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · Excepted quantities (EQ): E2· Limited quantities (LQ) 1L· Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category · Tunnel restriction code E· IMDG · Limited quantities (LQ) 1L· Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (N'-(3-· UN "Model Regulation": aminopropyl)-N,N-dimethylpropane-1,3-diamine), 8, III

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations
- · Technical instructions (air):
- · VOC EU % 0.00 %
- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Changes made since last issue dated 31.07.2014 at the following points: *

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· Relevant phrases

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

· Department issuing data specification sheet:

IGG-AD Ingenieurbüro für Gefahrstoff- und Gefahrgutberatung

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· Contact: Dr. U. Prinz (u.prinz@igg-ad.de)

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

* Data compared to the previous version altered.

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