

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 23.01.2015

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

· **1.1 Product identifier**

· Trade name: **ROMPOX D 4000 HR 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** Coating material

· **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.

Muta. 2                H341 Suspected of causing genetic defects.

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    GHS08    GHS09

· **Signal word** Warning

· **Hazard-determining components of labelling:**

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

Glycidyl neodecanoate

reaction product: bisphenol-F-(epichlorhydrin)

· **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 2)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 23.01.2015

Trade name: **ROMPOX D 4000 HR 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.  
 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).  
 P308+P313 **IF exposed or concerned:** Get medical advice/attention.  
 P333+P313 **If skin irritation or rash occurs:** Get medical advice/attention.  
 P405 Store locked up.  
 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	50-100%
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: 26761-45-5 EINECS: 247-979-2 Reg.nr.: 01-2119431597-33-xxxx	Glycidyl neodecanoate ⚠ Muta. 2, H341; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	10-25%

· **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**

Take affected persons into the open air and position comfortably  
Seek medical treatment in case of complaints.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.  
In cases of strong skin irritation, 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.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 23.01.2015

**Trade name: ROMPOX D 4000 HR Comp. A**

(Contd. of page 2)

- **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**  
CO<sub>2</sub>, 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 (CO<sub>2</sub>)  
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.  
Collect contaminated fire fighting water separately. It must not enter drains.

### 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 product to reach sewage system or water bodies.  
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**  
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.  
The usual precautionary measures for handling chemicals must be observed.  
Keep containers tightly sealed.
- **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 in cool, dry conditions in well sealed containers.
- **Storage class 10**
- **7.3 Specific end use(s)** No further relevant information available.

GB

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 23.01.2015

Trade name: **ROMPOX D 4000 HR Comp. A**

(Contd. of page 3)

**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-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)**

Oral	DNEL Langzeit Verbraucher / Long-term consumer	0.75 mg/kg/bw/d (-)
Dermal	DNEL - Arbeiter / worker	8.33 mg/kg/bw/d (-)
	DNEL Langzeit Verbraucher / Long-term consumer	3.571 mg/kg/bw/d (-)
Inhalative	DNEL Langzeit / long-term	12.25 mg/m <sup>3</sup> (-)

**26761-45-5 Glycidyl neodecanoate**

Dermal	DNEL - Arbeiter / worker	1.4 mg/kg/bw/d (-)
Inhalative	DNEL - Arbeiter / worker	1.965 mg/m <sup>3</sup> (-)

· **PNECs**

**25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)**

PNEC Langzeit Wasser / Long-term water	0.006 mg/l (Frischwasser (freshwater))
	0.006 mg/l (Meerwasser (seawater))

**26761-45-5 Glycidyl neodecanoate**

PNEC Langzeit Wasser / Long-term water	0.0035 mg/l (Frischwasser (freshwater))
	0.35 mg/l (Meerwasser (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**

Use skin protection cream for preventive skin protection.

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.

· **Breathing equipment:** Wear a respirator if an aerosol or mist forms.

· **Recommended filter device for short term use:**



Filter AX

· **Protection of hands:**

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

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 renewed use of the glove.

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

· **Material of gloves**

Nitrile rubber, NBR

(Contd. on page 5)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 23.01.2015

**Trade name: ROMPOX D 4000 HR Comp. A**

(Contd. of page 4)

Butyl rubber, BR

Fluorocarbon rubber (Viton)

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.

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

· **Penetration time of glove material**

The exact break through 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: Colourless

· **Odour:** Characteristic

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range:  $> 200 \text{ }^\circ\text{C}$

· **Flash point:**  $> 120 \text{ }^\circ\text{C}$

· **Ignition temperature:**  $> 300 \text{ }^\circ\text{C}$

· **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** 1.15 g/cm<sup>3</sup>

· **Solubility in / Miscibility with**

Water: Insoluble

· **Viscosity:**

dynamic: Not determined.

kinematic: Not determined.

· **Solvent content:**

Organic solvents: 0.0 %

· **9.2 Other information** No further relevant information available.

GB

(Contd. on page 6)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 23.01.2015

Trade name: **ROMPOX D 4000 HR Comp. A**

(Contd. of page 5)

**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:**
  - strong bases
  - strong acids
  - 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**

- **LD/LC50 values that are relevant for classification:**

**25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)**

Oral	LD50	15000 mg/kg (rat)
	NOAEL	50 mg/kg/d (rat)
Dermal	LD50	23000 mg/kg (rab)

**28064-14-4 reaction product: bisphenol-F-(epichlorhydrin)**

Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rab)

**26761-45-5 Glycidyl neodecanoate**

Oral	LD50	9600 mg/kg (rat)
Dermal	LD50	3800 mg/kg (rat)
Inhalative	LC50	> 5000 mg/m <sup>3</sup> (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.
- **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
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Muta. 2

**SECTION 12: Ecological information**

- **12.1 Toxicity**

- **Aquatic toxicity:**

**25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)**

Algentoxizität / Algae toxicity	220 mg/l (Alge) (LC50 (96h))
Daphnientoxizität / Daphnia toxicity	2.8 mg/l (Daphnia magna) (LC50 (48h))
Fischttoxizität / Fish toxicity	3.6 mg/l (Leuciscus idus) (LC50 (96h))

(Contd. on page 7)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 23.01.2015

Trade name: **ROMPOX D 4000 HR Comp. A**

(Contd. of page 6)

NOEC	4.2 mg/l (Alge) (72h)
<b>28064-14-4 reaction product: bisphenol-F-(epichlorhydrin)</b>	
Algentoxizität / Algae toxicity	> 1 - < 10 mg/l (Grünalge)
<b>26761-45-5 Glycidyl neodecanoate</b>	
Algentoxizität / Algae toxicity	10 mg/l (Grünalge) (EC50 (96h))
Daphnientoxizität / Daphnia toxicity	3.5 mg/l (Daphnia magna) (EC50 (48h))
Fischttoxizität / Fish toxicity	9.6 mg/l (Goldorfe (Leuciscus idus)) (LC50 (96h))
Toxizität / Toxicity	1 < LC/EC/IC50 < 10 mg/l (wirbellose Tiere)

- **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.
- **Ecotoxicological 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.

· **European waste catalogue**

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.

**SECTION 14: Transport information**

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN3082
- **14.2 UN proper shipping name**
- **ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin , Bisphenol F epoxy resin)
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin, reaction product: bisphenol-F-(epichlorhydrin)), MARINE POLLUTANT

(Contd. on page 8)

-GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 23.01.2015

Trade name: **ROMPOX D 4000 HR Comp. A**

(Contd. of page 7)

· **IATA** *ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (epoxy resin)*

· **14.3 Transport hazard class(es)**· **ADR**

· **Class** 9 (M6) Miscellaneous dangerous substances and articles.  
· **Label** 9

· **IMDG, IATA**

· **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 substances:  
epoxy resin, reaction product: bisphenol-F-  
(epichlorhydrin)*

· **Marine pollutant:**

Yes

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special marking (IATA):**

Symbol (fish and tree)

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Miscellaneous dangerous substances and  
articles.

· **Kemler Number:**

90

· **EMS Number:**

F-A,S-F

· **14.7 Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADR**· **Excepted quantities (EQ):**

E1

· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **Transport category**

3

· **Tunnel restriction code**

E

· **IMDG**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

(Contd. on page 9)



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 23.01.2015

**Trade name: ROMPOX D 4000 HR Comp. A**

(Contd. of page 8)

· <b>UN "Model Regulation":</b>	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin , Bisphenol F epoxy resin), 9, III
---------------------------------	---

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **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 12.02.2014 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](mailto:info@igg-ad.de)
- **Contact:**

Dr. U. Prinz ([u.prinz@igg-ad.de](mailto:u.prinz@igg-ad.de))  
Dipl.-Chem. H. Hinse ([heidrun.hinse@igg-ad.de](mailto:heidrun.hinse@igg-ad.de))
- **Abbreviations and acronyms:**

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.**

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 27.02.2015

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

· **1.1 Product identifier**

· Trade name: **ROMPOX D 4000 HR 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**

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.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful 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**



GHS05 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

m-phenylenebis(methylamine)

4-tert-butylphenol

trimethylhexane-1,6-diamine

· **Hazard statements**

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

(Contd. on page 2)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 27.02.2015

**Trade name: ROMPOX D 4000 HR Comp. B**

(Contd. of page 1)

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P405 Store locked up.

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

**Dangerous components:**

CAS: 98-54-4 EINECS: 202-679-0 Reg.nr.: 01-2119489419-21-0000	4-tert-butylphenol ----- ⚠ Repr. 2, H361; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	10-25%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50-xxx	m-phenylenebis(methylamine) ----- ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-25%
CAS: 25620-58-0 EINECS: 247-134-8 Reg.nr.: 01-2119560598-25-xxxx	trimethylhexane-1,6-diamine ----- ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	2.5-10%

• **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**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Instantly remove any clothing soiled by the product.

**After inhalation**

Supply fresh air or oxygen; call for doctor.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Seek immediate medical advice.

**After skin contact**

Instantly wash with water and soap and rinse thoroughly.

Call a doctor immediately.

• **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

**After swallowing**

Rinse the mouth with water immediately

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.

(Contd. on page 3)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 27.02.2015

**Trade name: ROMPOX D 4000 HR Comp. B**

(Contd. of page 2)

- **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**  
CO<sub>2</sub>, 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 dioxide (CO<sub>2</sub>)  
Carbon monoxide (CO)  
Nitrogen oxides (NO<sub>x</sub>)  
NH<sub>3</sub>  
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**  
Wear protective equipment. Keep unprotected persons away.  
Avoid contact with eyes and skin.  
Use breathing protection against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or water bodies.  
Do not allow to enter the ground/soil.  
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Collect in a suitable container and dispose of as described at paragraph 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
Clean the accident area carefully.  
See Section 7 for information on safe handling  
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.  
Use only in well ventilated areas.  
Prevent formation of aerosols.  
Do not inhale the vapours released during application.  
Keep eye irrigation utensils (bottle) ready for use at place of work.  
Avoid contact with the eyes and skin.  
The usual precautionary measures for handling chemicals must be observed.
- **Information about protection against explosions and fires:** No special measures required.

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 27.02.2015

Trade name: **ROMPOX D 4000 HR Comp. B**

(Contd. of page 3)

- **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:**  
Do not store together with acids.  
Store away from foodstuffs.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed containers.  
Store container in a well ventilated position.
- **Storage class 8 A**
- **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.

· **PNECs**

**1477-55-0 m-phenylenebis(methylamine)**

PNEC Langzeit Wasser / Long-term water	0.094 mg/l (Frischwasser (freshwater))
	0.0094 mg/l (Meerwasser (seawater))

**25620-58-0 trimethylhexane-1,6-diamine**

PNEC Langzeit Wasser / Long-term water	0.0295 mg/l (Frischwasser (freshwater))
	0.00295 mg/l (Meerwasser (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**

- Do not eat, drink or smoke while working.
- Keep away from foodstuffs, beverages and food.
- Take off immediately all contaminated clothing
- Store protective clothing separately.
- Wash hands during breaks and at the end of the work.
- Avoid contact with the eyes and skin.

· **Breathing equipment:**

- Use breathing protection in case of insufficient ventilation.
- In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· **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.

(Contd. on page 5)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 27.02.2015

**Trade name: ROMPOX D 4000 HR Comp. B**

(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

Neoprene gloves

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: PVC gloves**

· **Not suitable are gloves made of the following materials:**

Strong gloves

Leather gloves

· **Eye protection:**



Tightly sealed safety glasses.

· **Body protection:**

Impervious protective clothing

Boots

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid

Colour: Light yellow

· **Odour:** -

· **Odour threshold:** Not determined.

· **pH-value:** Alkaline

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range:  $> 235$  °C

· **Flash point:**  $> 110$  °C

· **Inflammability (solid, gaseous)** Not applicable.

· **Ignition temperature:** 350 °C

· **Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

(Contd. on page 6)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 27.02.2015

Trade name: **ROMPOX D 4000 HR Comp. B**

(Contd. of page 5)

· **Critical values for explosion:**

**Lower:** Not determined.  
**Upper:** Not determined.

· **Vapour pressure at 20 °C:** 0.02 mmHg

· **Density at 20 °C** 1.03 g/cm<sup>3</sup>  
· **Relative density** Not determined.  
· **Vapour density** Not determined.  
· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with Water:** Partly soluble· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**

**dynamic at 20 °C:** 700 mPas  
**kinematic:** Not determined.

· **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:**

nitrosing agents

acids

strong bases

oxidizing agents

Metals

Sodium hypochlorite

Peroxides

· **10.6 Hazardous decomposition products:**

none, if stored and handled correctly.

in the event of fire:

Nitric acid

Ammonia

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide and carbon dioxide

Nitrosamines

Aldehyde

**SECTION 11: Toxicological information**· **11.1 Information on toxicological effects**· **Acute toxicity**· **LD/LC50 values that are relevant for classification:****98-54-4 4-tert-butylphenol**

Oral	LD50	2951 mg/kg (rat)
	NOAEL	70 mg/kg (rat) (OECD- Prüfrichtlinie 416)
Dermal	LD50	2288 mg/kg (rbt)

(Contd. on page 7)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 27.02.2015

Trade name: **ROMPOX D 4000 HR Comp. B**

(Contd. of page 6)

Inhalative	LC50/4 h	> 5.6 mg/l (rat) (OECD- Prüfrichtlinie 403)
<b>1477-55-0 m-phenylenebis(methylamine)</b>		
Oral	LD50	930 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rab)
<b>25620-58-0 trimethylhexane-1,6-diamine</b>		
Oral	LD50	910 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Caustic effect on skin and mucous membranes.
- **Serious eye damage/irritation** Strong caustic effect.
- **Respiratory or skin sensitisation** Sensitization possible by skin contact.
- **Additional toxicological information:**  
 Harmful by inhalation  
 Harmful by inhalation.  
 Danger of skin absorption  
 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  
 Corrosive  
 Irritant  
 Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
 Repr. 2

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:**

<b>98-54-4 4-tert-butylphenol</b>	
Algentoxizität / Algae toxicity	> 10 - 100 mg/l ( <i>Selenastrum capricornutum</i> ) (EC50 (72h))
Bakterientoxizität / Bacteria toxicity	> 10 -100 mg/l ( <i>Belebschlambakterien</i> ) (EC50 (3 h))
Daphnientoxizität / Daphnia toxicity	> 1 -10 mg/l ( <i>Daphnia magna</i> ) (EC50 (48h))
Fischttoxizität / Fish toxicity	> 0.01 - 0.1 mg/l ( <i>Pimephales promelas</i> ) (NOEC (128 d)) > 1 - 10 mg/l ( <i>Onchorhynchus mykiss</i> ) (LC50 (96 h))
<b>1477-55-0 m-phenylenebis(methylamine)</b>	
Algentoxizität / Algae toxicity	20.3 mg/l ( <i>Scenedesmus subspicatus</i> ) (LC50 (72h))
Daphnientoxizität / Daphnia toxicity	16 mg/l ( <i>Daphnia magna</i> ) (EC50 (48h))
Fischttoxizität / Fish toxicity	> 100 mg/l ( <i>Onchorhynchus mykiss</i> ) (LC50 (96h)) > 100 mg/l ( <i>Zebrabärbling (zebra danio)</i> ) (LC50 (96h))
<b>25620-58-0 trimethylhexane-1,6-diamine</b>	
Algentoxizität / Algae toxicity	29.5 mg/l ( <i>Scenedesmus subspicatus</i> ) (EC50 (72h))
Bakterientoxizität / Bacteria toxicity	89 mg/l ( <i>Pseudomonas putida</i> ) (EC10 (17h))
Daphnientoxizität / Daphnia toxicity	31.5 mg/l ( <i>Daphnia magna</i> ) (EC50 (24h))
Fischttoxizität / Fish toxicity	174 mg/l ( <i>Leuciscus idus</i> ) (LC50 (48h))

- **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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish

(Contd. on page 8)

GB



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 27.02.2015

Trade name: **ROMPOX D 4000 HR Comp. B**

(Contd. of page 7)

- **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.  
Harmful to 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** For disposal, local regulations issued by the authorities must be observed.

- **European waste catalogue**

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.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN2735
- **14.2 UN proper shipping name**
- **ADR** 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 4-tert-butylphenol)
- **IMDG, IATA** AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 4-tert-butylphenol)
- **14.3 Transport hazard class(es)**
- **ADR**
- 
- **Class** 8 (C7) Corrosive substances.
- **Label** 8
- **IMDG, IATA**
- 
- **Class** 8 Corrosive substances.
- **Label** 8

(Contd. on page 9)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 27.02.2015

Trade name: **ROMPOX D 4000 HR Comp. B**

(Contd. of page 8)

· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Kemler Number: · EMS Number: · Segregation groups	Warning: Corrosive substances. 80 F-A,S-B Alkalis
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
-----	
· ADR · Excepted quantities (EQ): · Limited quantities (LQ) · Excepted quantities (EQ)	E2 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category · Tunnel restriction code	2 E
-----	
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 4-tert-butylphenol), 8, II

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- 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 12.02.2014 at the following points: \*

- **Relevant phrases**
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 10)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 27.02.2015

**Trade name: ROMPOX D 4000 HR Comp. B**

(Contd. of page 9)

*H412 Harmful 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](mailto:info@igg-ad.de)*

· **Contact:**

*Dr. U. Prinz ([u.prinz@igg-ad.de](mailto:u.prinz@igg-ad.de))*

*Dipl.-Chem. H. Hinse ([heidrun.hinse@igg-ad.de](mailto: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)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*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*

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

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

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

*Repr. 2: Reproductive toxicity, Hazard Category 2*

*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*

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

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

· **\* Data compared to the previous version altered.**