

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

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 D 3000 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

National Poisons Information Service (Birmingham Unit)

+44 121 507 4123

**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)

Hexanedioldigycidyl ether

· **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)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 01.06.2015

Revision: 05.02.2015

**Trade name: ROMPOX D 3000 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	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: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-xxxx	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	2.5-10%
CAS: 16096-31-4 EINECS: 240-260-4 Reg.nr.: 01-2119463471-41-xxxx	Hexanedioldiglycidyl ether ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; ⚠ Aquatic Chronic 3, H412	2.5-10%
CAS: 68439-46-3 Reg.nr.: 01-2119980051-45-xxxx	Alcohols, C9 - 11, ethoxylated ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	< 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.

(Contd. on page 3)

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

Printing date 01.06.2015

Revision: 05.02.2015

**Trade name: ROMPOX D 3000 Comp. A**

(Contd. of page 2)

- **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.
- **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 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.

### 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.

(Contd. on page 4)

GB

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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. A**

(Contd. of page 3)

- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from heat and direct sunlight.
- **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-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> (-)

#### **100-51-6 Benzyl alcohol**

Oral	DNEL Langzeit Verbraucher / Long-term consumer	5 mg/kg/bw/d (-)
Dermal	DNEL - Arbeiter / worker	9.5 mg/kg/bw/d (-) ((langfristig))
	DNEL Langzeit Verbraucher / Long-term consumer	5.7 mg/kg/bw/d (-)
Inhalative	DNEL - Arbeiter / worker	90 mg/m <sup>3</sup> (-) ((langfristig))
	DNEL Langzeit Verbraucher / Long-term consumer	5.7 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))

#### **100-51-6 Benzyl alcohol**

PNEC Langzeit Wasser / Long-term water	1 mg/l (Frischwasser (freshwater))
	0.1 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**  
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.

(Contd. on page 5)

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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. A**

(Contd. of page 4)

- **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

- **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 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:**



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:  $> 200$  °C

- **Flash point:**  $> 100$  °C

- **Ignition temperature:**  $> 300$  °C

- **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: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. A**

(Contd. of page 5)

· **Critical values for explosion:**

**Lower:** 1.3 Vol %  
**Upper:** 13.0 Vol %

· **Vapour pressure at 20 °C:** 0.8 hPa· **Density at 20 °C** 1.02 g/cm<sup>3</sup>· **Solubility in / Miscibility with Water:** Insoluble· **Viscosity:**

**dynamic at 20 °C:** 620 mPas  
**kinematic:** Not determined.

· **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 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 &gt; 2000 mg/kg (rat)

Dermal LD50 &gt; 2000 mg/kg (rab)

**100-51-6 Benzyl alcohol**

Oral LD50 1040 mg/kg (rat)

Dermal LD50 2000 mg/kg (rbt) (RTECS)

Inhalative LD50 &gt; 4178 mg/l (rat) (LC50 (4h))

**16096-31-4 Hexanedioldiglycidyl ether**

Oral LD50 8500 mg/kg (rat)

Dermal LD50 &lt; 4900 mg/kg (rab)

&gt; 4900 mg/kg (rat)

**68439-46-3 Alcohols, C9 - 11, ethoxylated**

Oral LD50 &gt; 300 - 2000 mg/kg (rat)

(Contd. on page 7)



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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. A**

(Contd. of page 6)

- **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:  
Irritant

**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))
NOEC	4.2 mg/l (Alge) (72h)

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

Algentoxizität / Algae toxicity	> 1 - < 10 mg/l (Grünalge)
---------------------------------	----------------------------

**100-51-6 Benzyl alcohol**

Algentoxizität / Algae toxicity	79 mg/l (Scenedesmus quadricauda) (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	71.4 mg/l (Photobacterium phosphoreum) (EC50 (30 min); IUCLID) > 658 mg/l (Pseudomonas putida) (EC50 (16h))
Daphnientoxizität / Daphnia toxicity	400 mg/l (daphnia) (EC50 (24h); IUCLID) 230 mg/l (Daphnia magna) (EC50 (48h))
Fischttoxizität / Fish toxicity	460 mg/l (Pimephales promelas) (LC50 (96h)) 645 mg/l (Goldorfe (Leuciscus idus)) (LC50 (96h))
closed bottel test	90 % (-)

**16096-31-4 Hexanedioldigycidyl ether**

Daphnientoxizität / Daphnia toxicity	47 mg/l (daphnia) (EC50 (24))
Fischttoxizität / Fish toxicity	30 mg/l (Onchorhynchus mykiss) (LC50 (96h)) 17.1 - 30.9 mg/l (Brachydanio rerio) (LC50 (96h))

- **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

(Contd. on page 8)

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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. A**

(Contd. of page 7)

- **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)
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin), MARINE POLLUTANT
- **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, Bisphenol F epoxy resin

(Contd. on page 9)

GB



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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. A**

(Contd. of page 8)

· <b>Marine pollutant:</b>	Yes Symbol (fish and tree)
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles.
· <b>Kemler Number:</b>	90
· <b>EMS Number:</b>	F-A,S-F
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Excepted quantities (EQ):</b>	E1
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	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 17.10.2013 at the following points: \*

- **Relevant phrases**
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful 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: 05.02.2015

**Trade name: ROMPOX D 3000 Comp. A**

(Contd. of page 9)

· **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)

DNEL: Derived No-Effect Level (REACH)

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

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

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

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

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.**

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

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 D 3000 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.
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

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
Benzyl alcohol  
3-aminomethyl-3,5,5-trimethylcyclohexylamine  
1,3-Cyclohexanedimethanamine  
N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine
- **Hazard statements**  
H302+H332 Harmful if swallowed or if inhaled.  
H314 Causes severe skin burns and eye damage.

(Contd. on page 2)

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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. B**

(Contd. of page 1)

H317 May cause an allergic skin reaction.

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).

P301+P312 **IF SWALLOWED:** Call a POISON CENTER/doctor if you feel unwell.

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: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-xxxx	Benzyl alcohol ----- ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	25-50%
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. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-25%
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: 61788-44-1 EINECS: 262-975-0 Reg.nr.: 02-2119629611-43-xxxx	Phenol, styrenated ----- ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	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%
CAS: 90-72-2 EINECS: 202-013-9 Index number: 603-069-00-0 Reg.nr.: 01-2119560597-27-xxxx	2,4,6-tris(dimethylaminomethyl)phenol ----- ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.5%
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	< 2.5%

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

GB

(Contd. on page 3)

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

Printing date 01.06.2015

Revision: 05.02.2015

**Trade name: ROMPOX D 3000 Comp. B**

(Contd. of page 2)

#### 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.  
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 out mouth and then drink plenty of water.  
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**  
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**  
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.  
Ensure adequate ventilation.
- **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.  
Prevent formation of aerosols.  
The usual precautionary measures for handling chemicals must be observed.

(Contd. on page 4)

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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. B**

(Contd. of page 3)

- **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:**  
Keep containers securely closed and dry, store at 15 - 20 °C.  
Store only in the original container.  
Provide floor trough without outlet.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Must be stored in a collecting room.  
Keep container tightly sealed.  
Store container in a well ventilated position.  
Protect from frost.
- **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.

· **DNELs****100-51-6 Benzyl alcohol**

Oral	DNEL Langzeit Verbraucher / Long-term consumer	5 mg/kg/bw/d (-)
Dermal	DNEL - Arbeiter / worker	9.5 mg/kg/bw/d (-) ((langfristig))
	DNEL Langzeit Verbraucher / Long-term consumer	5.7 mg/kg/bw/d (-)
Inhalative	DNEL - Arbeiter / worker	90 mg/m <sup>3</sup> (-) ((langfristig))
	DNEL Langzeit Verbraucher / Long-term consumer	5.7 mg/m <sup>3</sup> (-)

**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

Inhalative	DNEL - Arbeiter / worker	20.1 mg/m <sup>3</sup> (-)
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· **PNECs****100-51-6 Benzyl alcohol**

PNEC Langzeit Wasser / Long-term water	1 mg/l (Frischwasser (freshwater))
	0.1 mg/l (Meerwasser (seawater))

**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

PNEC Langzeit Wasser / Long-term water	0.06 mg/l (Frischwasser (freshwater))
	0.006 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**  
Keep away from foodstuffs, beverages and food.  
Wash hands during breaks and at the end of the work.  
Take off immediately all contaminated clothing  
Store protective clothing separately.  
Avoid contact with the eyes and skin.  
Use skin protection cream for preventive skin protection.  
Do not eat, drink or smoke while working.

(Contd. on page 5)



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

Printing date 01.06.2015

Revision: 05.02.2015

**Trade name: ROMPOX D 3000 Comp. B**

(Contd. of page 4)

· **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:**



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

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

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

Fluorocarbon rubber (Viton)

Recommended thickness of the material:  $\geq 0.5$  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 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: PVC gloves**

· **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: Yellowish

· **Odour:** Amine-like

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range:  $> 100$  °C

(Contd. on page 6)

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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. B**

(Contd. of page 5)

· <b>Flash point:</b>	> 100 °C
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive.
· <b>Density</b>	Not determined
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>9.2 Other information</b>	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:**
  - strong acids
  - strong bases
  - strong oxidizing agents
- **10.6 Hazardous decomposition products:**
  - none, if stored and handled correctly.
  - in the event of fire:
    - Poisonous gases/vapours
    - Corrosive gases/vapours

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values that are relevant for classification:****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))

**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

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)

**2579-20-6 1,3-Cyclohexanedimethanamine**

Dermal	LD50	1700 mg/kg (rab)
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**61788-44-1 Phenol, styrenated**

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

(Contd. on page 7)

GB

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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. B**

(Contd. of page 6)

**10563-29-8 N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine**

Oral	LD50	681 - 2000 mg/kg (rat)
Dermal	LD50	1310 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Strong 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:**  
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.

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****100-51-6 Benzyl alcohol**

Algentoxizität / Algae toxicity	79 mg/l ( <i>Scenedesmus quadricauda</i> ) (EC50 (3h)) 770 mg/l (Alge) (ErC50 (72h)) 640 mg/l ( <i>Scenedesmus subspicatus</i> ) (EC50 (96h))
BSB-5	1550 mg O2/g (-)
BSB5-Wert	1.55 g/g (-)
Bakterientoxizität / Bacteria toxicity	71.4 mg/l ( <i>Photobacterium phosphoreum</i> ) (EC50 (30 min); IUCLID) > 658 mg/l ( <i>Pseudomonas putida</i> ) (EC50 (16h))
Daphnientoxizität / Daphnia toxicity	400 mg/l ( <i>daphnia</i> ) (EC50 (24h); IUCLID) 230 mg/l ( <i>Daphnia magna</i> ) (EC50 (48h))
Fischttoxizität / Fish toxicity	460 mg/l ( <i>Pimephales promelas</i> ) (LC50 (96h)) 645 mg/l ( <i>Goldorfe (Leuciscus idus)</i> ) (LC50 (96h))
closed bottel test	90 % (-)

**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

Algentoxizität / Algae toxicity	50 mg/l ( <i>Scenedesmus subspicatus</i> ) (EC50 (72h))
Bakterientoxizität / Bacteria toxicity	1120 mg/l ( <i>Pseudomonas putida</i> ) (EC10 (18h))
Daphnientoxizität / Daphnia toxicity	23 mg/l ( <i>Daphnia magna</i> ) (EC50 (48h))
Fischttoxizität / Fish toxicity	110 mg/l ( <i>Brachydanio rerio</i> ) (LC50 (96h))
LC0 (96h)	70 mg/l ( <i>Brachydanio rerio</i> )
NOEC	(504h) 3 mg/l ( <i>Daphnia magna</i> ) (72h) 1.5 mg/l ( <i>Scenedesmus subspicatus</i> )

**2579-20-6 1,3-Cyclohexanedimethanamine**

EC50	90 mg/l ( <i>Pseudomonas putida</i> )
LC50	130 mg/l ( <i>Goldorfe (Leuciscus idus)</i> )

**61788-44-1 Phenol, styrenated**

Algentoxizität / Algae toxicity	3.14 mg/l ( <i>Scenedesmus subspicatus</i> ) (EL50 (72h))
Daphnientoxizität / Daphnia toxicity	1 - 10 mg/l ( <i>Daphnia magna</i> ) (EL50 (48h))

(Contd. on page 8)

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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. B**

(Contd. of page 7)

Fischtoxizität / Fish toxicity	14.8 mg/l (fish) (LL50 (96h))
<b>10563-29-8 N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine</b>	
Algentoxizität / Algae toxicity	181 mg/l ( <i>Pseudomonas putida</i> ) (EC50 (16h))
Bakterientoxizität / Bacteria toxicity	> 1000 mg/l ( <i>Belebschlamm</i> bakterien) (EC20 (0,5h))
Fischtoxizität / Fish toxicity	220 mg/l ( <i>Leuciscus idus</i> ) (LC50 (96h))

- **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:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even extremely 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** 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** UN2735
- **14.2 UN proper shipping name**
- **ADR** 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine)
- **IMDG** AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, nonylphenol), MARINE POLLUTANT
- **IATA** AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine)

(Contd. on page 9)

GB

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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. B**

(Contd. of page 8)

## · 14.3 Transport hazard class(es)

## · ADR



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

## · IMDG



· Class 8 Corrosive substances.  
· Label 8

## · IATA



· Class 8 Corrosive substances.  
· Label 8

## · 14.4 Packing group

· ADR, IMDG, IATA III

## · 14.5 Environmental hazards:

Product contains environmentally hazardous substances:  
nonylphenol

## · Marine pollutant:

Yes  
Symbol (fish and tree)

## · 14.6 Special precautions for user

Warning: Corrosive substances.

## · Kemler Number:

80

## · EMS Number:

F-A,S-B

## · Segregation groups

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):

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

(Contd. on page 10)

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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. B**

(Contd. of page 9)

· <b>Exempted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine), 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 danger class 3 (Self-assessment): extremely 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 17.10.2013 at the following points: \*

- **Relevant phrases**  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H411 Toxic to aquatic life with long lasting effects.  
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)  
DNEL: Derived No-Effect Level (REACH)  
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

(Contd. on page 11)



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

Printing date 01.06.2015

Revision: 05.02.2015

Trade name: **ROMPOX D 3000 Comp. B**

(Contd. of page 10)

*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*

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

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

*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.**

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