Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 06/12/2011 Reviewed on 06/12/2011

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

· **Product identifier**

· **Trade name:** **ROMPOX DRÄN PLUS Comp. A**

· **Application of the substance / the preparation** Epoxy resin

· **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

· **Information department:** Product Safety Department

· **Emergency telephone number:**
Tel.: +49(0)02225/70328-11
Fax +49(0)02225/70328-28

2 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Epoxy resin formulation with a bisphenol-A liquid resin base.

· **Dangerous components:**

CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Xi R36/38-43; N R51/53 H411; H315; H319; H317	25-50%
CAS: 28064-14-4 Polymer	Phenol, polymer with formaldehyde, glycidyl ether Xi R36/38-43; N R50/53 H400; H410; H315; H319; H317	10-25%
CAS: 26761-45-5 EINECS: 247-979-2	Glycidyl neodecanoate Xi R38-43; N R51/53 H411; H315; H317; H401	10-25%
CAS: 16096-31-4 EINECS: 240-260-4	Hexanedioldigycidyl ether Xi R36/38-43 R52/53 H315; H319; H317; H402; H412	2.5-10%
CAS: 9004-82-4 Polymer	Sodium Laureth Sulfate Xi R36/38 H315; H319	< 2.5%

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

3 Hazards identification

· **Classification of the substance or mixture**

GHS09 Environment

H411 Toxic to aquatic life with long lasting effects.

GHS07

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xi; Irritant

R36/38-43: Irritating to eyes and skin. May cause sensitization by skin contact.

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Label elements**

· **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· **Code letter and hazard designation of product:**

Xi Irritant
N Dangerous for the environment

· **Hazard-determining components of labelling:**
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
Glycidyl neodecanoate
Hexanedioldigycidyl ether

· **Risk phrases:**
36/38 Irritating to eyes and skin.
43 May cause sensitization by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

· **Safety phrases:**
24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of soap and water
37/39 Wear suitable gloves and eye/face protection.
57 Use appropriate container to avoid environmental contamination.

· **Special labelling of certain preparations:**
Contains epoxy constituents. See information supplied by the manufacturer.

· **Classification system**

· **NFPA ratings (scale 0-4)**

Health = 1
Fire = 1
Reactivity = 0

4 First aid measures

· **General information** *Immediately remove any clothing soiled by the product.*

· **After inhalation** *Supply fresh air; consult doctor in case of complaints.*

· **After skin contact**
Immediately 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 a doctor.*

· **After swallowing**
Rinse the mouth with water immediately

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Seek immediate medical advice.
· **Information for doctor** No particular measures are known - treat according to symptoms.

5 Firefighting measures

· **Suitable extinguishing agents**
CO_2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents** Water with full jet.
· **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO2)
In certain fire conditions, traces of other toxic gases cannot be excluded.
· **Protective equipment:** Wear self-contained respiatory protective device.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Avoid contact with eyes and skin.
Wear protective clothing.
· **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.
· **Reference to other sections**
Clean the accident area carefully.
See Section 13 for disposal information.
See Section 8 for information on personal protection equipment.

7 Handling and storage

· **Handling**
· **Precautions for safe handling**
Keep receptacles 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.
· **Storage**
· **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.
· **Information about storage in one common storage facility:** Store away from foodstuffs.
· **Further information about storage conditions:**
Keep receptacle tightly sealed.
Protect from frost.
Protect from heat and direct sunlight.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.
· **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.

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· **Additional information:** The lists that were valid during the creation were used as basis.
· **Personal protective equipment**
· **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Immediately remove all soiled and contaminated clothing
Store protective clothing separately.
Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.
· **Breathing equipment:** Wear a respirator if an aerosol or mist forms.
· **Recommended filter device for short term use:**

Filter AX

· **Protection of hands:**
Protective gloves.

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)
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:**

Safety glasses

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

9 Physical and chemical properties

· **General Information**
· **Appearance:**

Form:	Fluid
Color:	Colorless
· **Odor:**	Characteristic

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· **Change in condition** **Melting point/Melting range:** **Boiling point/Boiling range:**	 undetermined > 200°C (> 392 °F)
· **Flash point:**	> 100°C (> 212 °F)
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Vapor pressure:**	Not determined
· **Density at 20°C (68 °F):**	1.13 g/cm³ (9.43 lbs/gal)
· **Solubility in / Miscibility with Water:**	Insoluble
· **Viscosity:** **dynamic at 20°C (68 °F):**	 550 mPas

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Hazardous decomposition products:** none, if stored and handled correctly.

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
55492-52-9 Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol		
Oral	LD50	>5000 mg/kg (rat)
26761-45-5 Glycidyl neodecanoate		
Oral	LD50	9600 mg/kg (rat)
Dermal	LD50	3800 mg/kg (rat)
Inhalative	LC50/4 h	- mg/l (rat)
16096-31-4 Hexanedioldigycidyl ether		
Oral	LD50	2900 mg/kg (rat)
Dermal	LD50	> 4900 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** Irritant to skin and mucous membranes.
· **on the eye:** Irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

· **Acquatic toxicity:**	
26761-45-5 Glycidyl neodecanoate	
Toxizität	1<LC/EC/IC50<10 mg/l (Alge) 1<LC/EC/IC50<10 mg/l (wirbellose Tiere) 1<LC/EC/IC50<10 mg/l (fish)

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16096-31-4 Hexanedioldigycidyl ether	
EC50	(24h) 47 mg/l (Daphnia magna)
LC50 (96h)	30 mg/l (Onchorhynchus mykiss)
	17.1 - 30.9 mg/l (Brachydanio rerio)

· **Ecotoxical effects:** Not determined
· **Remark:** Toxic for fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water course or sewage system.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation** For disposal,local regulations issued by the authorities must be observed.

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

14 Transport information

· **DOT regulations:**

· **Hazard class:** 9
· **Identification number:** UN3082
· **Packing group:** III
· **Proper shipping name (technical name):** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
· **Label** 9

· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** 9 (M6) Miscellaneous dangerous substances and articles
· **Danger code (Kemler):** 90
· **UN-Number:** 3082
· **Packaging group:** III
· **Special marking:** Symbol (fish and tree)
· **UN proper shipping name:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

· **Maritime transport IMDG:**

· **IMDG Class:** 9

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· **UN Number:**	3082
· **Label**	9
· **Packaging group:**	III
· **EMS Number:**	F-A,S-F
· **Marine pollutant:**	No
· **Propper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:**	9
· **UN/ID Number:**	3082
· **Label**	9
· **Special marking:**	Symbol (fish and tree)
· **Packaging group:**	III
· **Propper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

· **UN "Model Regulation":**
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin), 9, III

15 Regulatory information

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Markings according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· **Code letter and hazard designation of product:**

Xi Irritant
N Dangerous for the environment

· **Hazard-determining components of labelling:**
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

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Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
Glycidyl neodecanoate
Hexanedioldigycidyl ether

· **Risk phrases:**
36/38 Irritating to eyes and skin.
43 May cause sensitization by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

· **Safety phrases:**
24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of soap and water
37/39 Wear suitable gloves and eye/face protection.
57 Use appropriate container to avoid environmental contamination.

· **Special labeling of certain preparations:**
Contains epoxy constituents. See information supplied by the manufacturer.

· **National regulations**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
· **Sara**

· **Section 355 (Exremely hazardous substances):**
None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
55492-52-9	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
26761-45-5	Glycidyl neodecanoate
16096-31-4	Hexanedioldigycidyl ether

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

16 Other information

This information is based on our present knowledge. However, this 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 21.05.2005 at the following points: *

· **Relevant phrases**
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H401 Toxic to aquatic life.
H402 Harmful to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
R43 May cause sensitization by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

· **Department issuing MSDS:**
IGG-AD Ingenieurbüro für Gefahrstoff- und Gefahrgutberatung
Bismarckstraße 10
D-68623 Lampertheim
Fax: 0049-(0)6206-58422 http://www.igg-ad.de info@igg-ad.de

· **Contact:**
Dr. U. Prinz (u.prinz@igg-ad.de)
Dipl.-Chem. H. Hinse (heidrun.hinse@igg-ad.de)

· **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent