

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

- **1.1 Product identifier**
- **Trade name: Indufloor-IB 3311 (A-Komponente)**
- **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 coating
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SCHOMBURG GmbH
Aquafinstr. 2-8
D-32760 Detmold
Germany

Tel: ++49 (0)5231/953-00
Fax: ++49 (0)5231/953-123
email: info@schomburg.de
web: www.schomburg.de
- **Informing department:**
Product Safety Department

Tel: ++49 (0)5231/953-193
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SECTION 2: Hazards identification

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



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

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.

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



Xi; Irritant

R36/38: Irritating to eyes and skin.



Xi; Sensitising

R43: May cause sensitisation 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 may not leak out in sewerage system, stretch of water or soil.

- **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.03.2015

Version number 8

Revision: 16.03.2015

Trade name: Indufloor-IB 3311 (A-Komponente)

(Contd. of page 1)

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)

Bisphenol-F-Epichlorhydrinharze MG ≤ 700

m-tolylidene diisocyanate

oxirane, mono[(C12-14-alkyloxy)methyl] derivs

1,6-bis(2,3-ethoxypropoxy)hexane

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.

Precautionary statements

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

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

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

P363 Wash contaminated clothing before reuse.

P333+P313 If skin irritation or rash occurs: 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:** Solvent free preparation based on modified Epoxy-resins.

Dangerous components:

CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)  	25-50%
CAS: 28064-14-4	Bisphenol-F-Epichlorhydrinharze MG ≤ 700  	2.5-10%
CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol  	< 2.5%

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31







Printing date 16.03.2015

Version number 8

Revision: 16.03.2015

Trade name: Indufloor-IB 3311 (A-Komponente)

(Contd. of page 2)

- CAS: 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs < 0.5%
 EINECS: 271-846-8  Xi R38;  Xi R43
 Skin Irrit. 2, H315; Skin Sens. 1, H317
- CAS: 16096-31-4 1,6-bis(2,3-ethoxypropoxy)hexane < 0.5%
 Xi R36/38;  Xi R43
 R52/53
 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412

• **Additional information** Contains epoxide-compounds. Note the index of the manufacturer.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information**
 Personal protection for the First Aider.
 It is possible to choke in case of vomiting in unconsciousness.
 Bring unconscious persons into a stable position on side.
 Keep the respiratory tract free (remove dentures and vomiting).
 Check the pulse. In case of heart failure you have to make a cardiac massage. In case of stoppage of breathing: artificial respiration.
 Take up a doctor immediately!
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
 Change immediately contaminated clothes.
 Instantly wash with water and soap and rinse thoroughly.
 Don't use solvents to clean the skin.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**
 Do not induce vomiting; instantly call for medical help.
 Do not give household remedies (milk, alcohol etc.)
 Show the pack or the label to the doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
 No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
 No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
 CO₂, extinguishing powder or water jet. Fight larger fires with water jet.
- **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**
 Burst- and explosion-danger by increasing pressure.
 In case of fire chill the container with water spray.
 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

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.03.2015

Version number 8

Revision: 16.03.2015

Trade name: Indufloor-IB 3311 (A-Komponente)

(Contd. of page 3)

Avoid eye- and skin contact.

Wear protective equipment. Keep unprotected persons away.

Do not breath in vapour.

- **6.2 Environmental precautions:**

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

Build barriers with sand, soil or other sealings.

- **6.3 Methods and material for containment and cleaning up:**

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

- **6.4 Reference to other sections**

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**

Keep away from heat and direct sunlight.

Open and handle container with care.

Work with fresh air supply, keep doors and windows open.

Keep away from children.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and containers:**

Store in cool location.

Do not leave open containers.

Do not store in common rooms.

- **Information about storage in one common storage facility:**

Store away from oxidising agents.

Please follow the rules of the VCI-Storage-Concept for chemicals.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed containers.

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

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**

It must be possible to wash the skin in the working area.

Eye-wash bottle must be available.

- **8.1 Control parameters**

- **Components with critical 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.

- **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**

The usual precautionary measures should be adhered to in handling the chemicals.

Clean skin only with cleaning agent especially for epoxy resin.

Don't use solvent for skin cleaning!

Clean clothes which are contaminate with epoxi resin before unsing again.

Instantly remove any soiled and impregnated garments.

Avoid contact with the eyes and skin.

Be sure to clean skin thoroughly after work and before breaks.

- **Breathing equipment:** Not required.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.03.2015

Version number 8

Revision: 16.03.2015

Trade name: Indufloor-IB 3311 (A-Komponente)

(Contd. of page 4)

- **Protection of hands:** Hand Protection: Nitril-rubber-latex-gloves.
- **Material of gloves**
Butyl rubber II R: Thickness $\geq 0,5\text{mm}$; Break through time $\geq 480\text{ min}$
- **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.
- **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:	Different according to colour
Smell:	Characteristic
- **Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	$> 200\text{ }^{\circ}\text{C}$
- **Flash point:** $> 110\text{ }^{\circ}\text{C}$
- **Self-inflammability:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive.
- **Steam pressure:** Not determined.
- **Density at 20 °C** 1.55 g/cm^3
- **Solubility in / Miscibility with Water:** Dispersible
- **Viscosity:**

dynamic at 20 °C:	8500 mPas
kinematic at 20 °C:	5480 mm ² /s
- **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** Reacts violently with oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Can be react with heavy oxidizing agents.
- **10.6 Hazardous decomposition products:**
No dangerous decomposition products known
In case of heating dangerous decomposition products can be arise.

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(Contd. on page 6)

Trade name: Indufloor-IB 3311 (A-Komponente)

(Contd. of page 5)

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 >5000 mg/kg (rats)

Dermal LD50 >2000 mg/kg (rats)

100-51-6 Benzyl alcohol

Oral LD50 1040 mg/kg (mou)

1230 mg/kg (rats)

1040 mg/kg (rbt)

Dermal LD50 2000 mg/kg (rbt)

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Oral LD50 >5000 mg/kg (rats)

Dermal LD50 >4500 mg/kg (rabbit)

16096-31-4 1,6-bis(2,3-ethoxypropoxy)hexane

Oral LD50 1400 mg/kg (rabbit)

2900 mg/kg (rats)

Inhalative LC50/4 h >100 mg/l (Maus)

1330-20-7 xylene, mixed isomers, pure

Oral LD50 >2000 mg/kg (rats)

Dermal LD50 > 2000 mg/kg (rbt)

Inhalative LC50/4 h 5 mg/l (rats)

Primary irritant effect:

• **on the skin:** Irritant for skin and mucous membranes.

• **on the eye:** Irritant effect.

• **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

Sensitizing

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

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

EC50 (24h) 3.6 mg/l (Daphnia magna)

LC50 (96h) 1.5 mg/l (rainbow trout)

100-51-6 Benzyl alcohol

LC/EC50 (96h) 645 mg/l (orfe)

10 mg/l (Lepomis macrochius)

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

EC50 (48h) 1-10 mg/l (Daphnia magna)

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.03.2015

Version number 8

Revision: 16.03.2015

Trade name: Indufloor-IB 3311 (A-Komponente)

(Contd. of page 6)

EC50 (96h) 1-10 mg/l (fish toxicity)

- **12.2 Persistence and degradability**

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

301B (Mod. Sturm) 12 % (-)

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

100-51-6 Benzyl alcohol

EC 50 400 mg/l (Daphnia (acute) toxicity)

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (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.

- **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 not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **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 01 00 wastes from MFSU and removal of paint and varnish

08 01 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. (bisphenol A-(epichlorhydrin); epoxy resin(number average molecular weight<700))

- **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorhydrin); epoxy resin(number average molecular weight<700)), MARINE POLLUTANT

- **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorhydrin); epoxy resin(number average molecular weight<700))

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.03.2015

Version number 8

Revision: 16.03.2015

Trade name: Indufloor-IB 3311 (A-Komponente)

(Contd. of page 7)

• **14.3 Transport hazard class(es)**

• **ADR, IMDG, IATA**



- **Class** 9 Miscellaneous dangerous substances and articles.
 • **Label** 9

• **14.4 Packing group**

- **ADR, IMDG, IATA** III

• **14.5 Environmental hazards:**

- **Marine pollutant:** Yes
 Symbol (fish and tree)
 • **Special marking (ADR):** Symbol (fish and tree)
 • **Special marking (IATA):** Symbol (fish and tree)

• **14.6 Special precautions for user**

- Warning: Miscellaneous dangerous substances 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**
 • **Limited quantities (LQ)** 5L
 • **Transport category** 3
 • **Tunnel restriction code** E
 • **UN "Model Regulation":** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorhydrin); epoxy resin(number average molecular weight<700)), 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):**

• **Class Share in %**

• **NK** 0.4

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

• **Other regulations, limitations and prohibitive regulations**

• **Substances of very high concern (SVHC) according to REACH, Article 57**

872-50-4 1-methyl-2-pyrrolidone

• **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

GB

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.03.2015

Version number 8

Revision: 16.03.2015

Trade name: **Indufloor-IB 3311 (A-Komponente)**

(Contd. of page 8)

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.

• Relevant phrases

- H302 Harmful if swallowed.
- 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.

R20/22 Harmful by inhalation and if swallowed.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

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

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

• **Department issuing data specification sheet:** Environment protection department.

• **Contact:** Mr. Guido Herfort

• 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)

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 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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