

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

Printing date 05.01.2017

Version number 7

Revision: 05.01.2017

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


- **1.1 Product identifier**
- **Trade name:** **ASODUR-B 351 (A-Komp.)(INDUFLOOR-IB 3357 (A-Komp.))**
- **Article number:** 205796
- **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 & Co. KG
Aquafinstr. 2-8
D-32760 Detmold
Germany


- **Informing department:**
Product Safety Department

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

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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.

• **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 \leq 700)
bisphenol-F-epoxy resin
oxirane, mono[(C12-14-alkyloxy)methyl] derivs
Fatty acids, C14-18 and C16-18-unsatd., 2-phenoxyethyl esters, maleated
- **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

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H411 Toxic to aquatic life with long lasting effects.

• **Precautionary statements**

- P273 Avoid release to the environment.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves / 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.
 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.

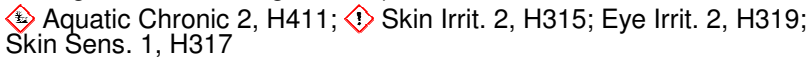

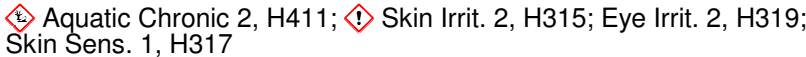
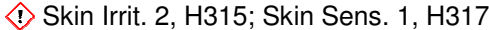

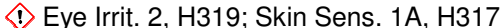
SECTION 3: Composition/information on ingredients

• **3.2 Chemical characterisation: Mixtures**

• **Description:**

Solvent- free preparation based on Bisphenol-A-Epichlorhydrin resin molecular weight \leq 700.

• **Dangerous components:**

CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) 	25-50%
CAS: 38640-62-9	Diisopropylnaphtalene 	2.5-10%
CAS: 9003-36-5 NLP: 500-006-8	bisphenol-F-epoxy resin 	2.5-10%
CAS: 68609-97-2 EINECS: 271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs 	2.5-10%
CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol 	< 2.5%
CAS: 91001-64-8	Fatty acids, C14-18 and C16-18-unsatd., 2-phenoxyethyl esters, maleated 	< 0.5%

• **Additional information**

Contains epoxide-compounds. Note the index of the manufacturer.
 For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• **4.1 Description of first aid measures**

• **General information**

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

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

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of breathing: artificial respiration.

Take up a doctor immediately!

• **After inhalation**

Supply fresh air or oxygen; call for doctor.

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

• **After skin contact**

Wash with water and soap.

Change immediately contaminated clothes.

• **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

• **After swallowing**

Do not induce vomiting; instantly call for medical help.

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.

• **5.2 Special hazards arising from the substance or mixture**

Formation of poisonous gases during heating or in fires.

In case of strong heat burst- and explosion hazard, the pressure in the container will increase. In case of fire chill the container with water-spray.

• **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.

Follow the emergency-plan.

Burst- and explosion-danger by increasing pressure.

In case of fire chill the container with water spray.

SECTION 6: Accidental release measures

• **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Avoid eye- and skin contact.

Do not breath in vapour.

Keep away from ignition sources

Bring persons out of danger.

Wear protective equipment. Keep unprotected persons away.

• **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.

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

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

• **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 containers tightly sealed.

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

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Keep away from heat and direct sunlight.

Avoid splashes. Do not spray on hot surfaces.

Keep away from children.

• **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:**

Do not leave open containers.

Do not store in common rooms.

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

Store away from foodstuffs.

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

• **Further information about storage conditions:**

Protect from frost.

Keep container tightly sealed.

• **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**

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 using again.

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

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.

• **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.

Contaminated protection clothes must be cleaned carfully before reuse.

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SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

· Form:	Liquid
· Colour:	Colourless
· Smell:	Weak, characteristic
· Odour threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· Melting point/freezing point:	Not determined
· Initial boiling point and boiling range:	Not determined

· **Flash point:** > 200 °C

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

· **Ignition temperature:**

· **Decomposition temperature:** Not determined.

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

· **Explosive properties:** Product is not explosive.

· **Critical values for explosion:**

· Lower:	Not determined.
· Upper:	Not determined.

· **Steam pressure:** Not determined.

· Density at 20 °C	1.59 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

· dynamic at 20 °C:	8000 mPas
· kinematic:	Not determined.

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

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** Can react with acid and oxidizing agents.

· **10.6 Hazardous decomposition products:**

In case of heating dangerous decomposition products can be arise.

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity** Based on available data, the classification criteria are not met.
 - **LD/LC50 values that are relevant for classification:**
-
- 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)**
- Oral LD50 >5000 mg/kg (rats)
Dermal LD50 >2000 mg/kg (rats)
- 38640-62-9 DiisopropylNaphtalene**
- Oral LD50 >3900 mg/kg (rats)
Dermal LD50 >4500 mg/kg (rats)
- 9003-36-5 bisphenol-F-epoxy resin**
- Oral LD50 >10000 mg/kg (rats)
Dermal LD50 >2000 mg/kg (rats)
- 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs**
- Oral LD50 34600 mg/kg (rats)
Dermal LD50 >23800 mg/kg (rabbit)
- 100-51-6 Benzyl alcohol**
- Oral LD50 1570 mg/kg (rats)
Inhalative LC50 11 mg/l
- **Primary irritant effect:**
 - **Skin corrosion/irritation**
The produkt has an irritate-effect.
Causes skin irritation.
 - **Serious eye damage/irritation**
Causes serious eye irritation.
 - **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
 - **Additional toxicological information:** Sensitizing
 - **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
 - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 - **Carcinogenicity** Based on available data, the classification criteria are not met.
 - **Reproductive toxicity** Based on available data, the classification criteria are not met.
 - **STOT-single exposure** Based on available data, the classification criteria are not met.
 - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
 - **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
 - **Aquatic toxicity:**
-
- 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)**
- LC50 (96h) 2 mg/l (rainbow trout)
EC50 (48h) 1.7 mg/l (Daphnia sp.)
EC50 (48h) 1.7 mg/l (Daphnia magna)
NOEC 0.3 mg/l (Daphnia magna)
- 9003-36-5 bisphenol-F-epoxy resin**
- LC50/96h 2.54 mg/l (Leuciscus idus)

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EC50 2.55 mg/l (Daphnia magna)
ERC50 1.8 mg/l (algae toxicity)

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

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

EC50 1-10 mg/l (Daphnia magna)

- **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:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
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 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 04 00 wastes from MFSU of adhesives and sealants (including waterproofing products)
- 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
- **Uncleaned packagings:**
- **Recommendation:**
Empty Containers with solid product rests can be supplied for recycling.
Empty Containers including fluid product rests are hazardous waste.

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

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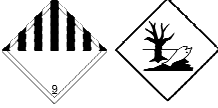
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·	epoxy resin(number average molecular weight<700), Diisopropylnaphthalin-Isomere)
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: bisphenol A-(epichlorhydrin); epoxy resin(number average molecular weight<700)
· Marine pollutant:	No 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 Marpol 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), Diisopropylnaphthalene), 9, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations**
- **Technical instructions (air):**
- **Class Share in %**
- **NK** 0.3
- **Water hazard class:** The classification based on german instructions.

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· **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.

· **Relevant phrases**

- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- 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.
- H413 May cause long lasting harmful effects to aquatic life.

· **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
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1A: Skin sensitisation – Category 1A
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

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

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