

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

Printing date 09.02.2017

Version number 8

Revision: 09.02.2017


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


- **1.1 Product identifier**
- **Trade name: ASODUR-B 3356-EFC (B-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 & Co. KG
Aquafinstr. 2-8
D-32760 Detmold
Germany


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SECTION 2: Hazards identification

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

| | |
|-----------------|---|
| GHS05 corrosion | Skin Corr. 1B H314 Causes severe skin burns and eye damage. |
| | Eye Dam. 1 H318 Causes serious eye damage. |
- 

| | |
|-------------------|---|
| GHS09 environment | Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. |
|-------------------|---|
- 

| | |
|-------|---|
| GHS07 | Acute Tox. 4 H302 Harmful if swallowed. |
| | Acute Tox. 4 H312 Harmful in contact with skin. |
| | Acute Tox. 4 H332 Harmful if inhaled. |
| | STOT SE 3 H335 May cause respiratory irritation. |

• **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, GHS09
- **Signal word** Danger
- **Hazard-determining components of labelling:**
1,5 Pentandiamin, 2 Methyl- Reaktionsprodukte mit 2-Ethyl-1,4-butandiamin und Glycidyltolether
O,O-Bis(2-aminopropyl)polypropyleneglycol

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1,3-Cyclohexanedimethanamine

Salicylic acid

- **Hazard statements**

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

P273 Avoid release to the environment.

P260 Do not breathe dusts or mists.

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.

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:** Hardener, aminformulation

- **Dangerous components:**

| | | |
|-------------------|--|---------|
| CAS: 90480-76-5 | 1,5 Pentandiamin,2 Methyl- Reaktionsprodukte mit 2-Ethyl-1,4-butandiamin und Glycidyltolether | 50-100% |
| | ☞ Skin Corr. 1B, H314; ☠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335 | |
| CAS: 9046-10-0 | O,O-Bis(2-aminopropyl)polypropyleneglycol | 25-50% |
| | ☞ Skin Corr. 1B, H314; Eye Dam. 1, H318; ☠ Acute Tox. 4, H302; Acute Tox. 4, H312; Aquatic Chronic 3, H412 | |
| CAS: 2579-20-6 | 1,3-Cyclohexanedimethanamine | 2.5-10% |
| EINECS: 219-941-5 | ☠ Acute Tox. 4, H302 | |
| CAS: 69-72-7 | Salicylic acid | 2.5-10% |
| EINECS: 200-712-3 | ☞ Eye Dam. 1, H318 | |

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information**

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!

Personal protection for the First Aider.

- **After inhalation** Supply fresh air or oxygen; call for doctor.

- **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

Change immediately contaminated clothes.

If symptoms appearance, call the doctor.

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- **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.
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.
- **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**
Wear protective equipment. Keep unprotected persons away.
Cleaning may be carried out only with skilled persons.
- **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**
Ensure good ventilation/exhaustion at the workplace.
Open and handle container with care.
Work with fresh air supply, keep doors and windows open.
Avoid splashes. Do not spray on hot surfaces.
- **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.
No special requirements.
- **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:** Keep container tightly sealed.

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- **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.
Avoid contact with the eyes and skin.
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 unusing again.
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.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

| | |
|---------|------------|
| Form: | Fluid |
| Colour: | Colourless |
| Smell: | Amine-like |
- **pH-value at 20 °C:** 11
- **Change in condition**

| | |
|--|----------------|
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | > 200 °C |
- **Flash point:** 105 °C
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive.
- **Density at 20 °C** 1 g/cm³

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- | | |
|--|--|
| • Solubility in / Miscibility with Water: | miscible |
| • Viscosity: | |
| • dynamic at 20 °C: | 200 mPas |
| • 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** Exothermic reaction
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Acids
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity**
Harmful if swallowed, in contact with skin or if inhaled.
 - **LD/LC50 values that are relevant for classification:**
-
- 9046-10-0 O,O-Bis(2-aminopropyl)polypropyleneglycol**
Oral LD50 1100 mg/kg (rats)
Dermal LD50 1555 mg/kg (rabbit)
- 69-72-7 Salicylic acid**
Oral LD50 >2000 mg/kg (rabbit)
LD50 891 mg/kg (rats)
- **Primary irritant effect:**
 - **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
 - **Serious eye damage/irritation**
Causes serious eye damage.
 - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
 - **Additional toxicological information:** Sensitizing
 - **CMR effects (carcinogenicity, 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**
May cause respiratory irritation.
 - **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:**
-
- 9046-10-0 O,O-Bis(2-aminopropyl)polypropyleneglycol**
LC50/96h >100 mg/l (fish toxicity)

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Trade name: ASODUR-B 3356-EFC (B-Komponente)

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EC50 (48h) 15 mg/l (Daphnia magna)

69-72-7 Salicylic acid

LC50/96h 1380 mg/l (fish toxicity)

EC50 (48h) 870 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.
- **Additional ecological information:**
- **General notes:**
Water danger class 3 (Self-assessment): extremely hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
- **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.
Must be specially treated under adherence to official regulations.
Transfer to a permitted waste disposal institution.
Cured materials which mixed with epoxy resin can put to the household-rubbish, after consulting the waste disposal.
- **European waste catalogue**
07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02 00 wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 04 other organic solvents, washing liquids and mother liquors
07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02 00 wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 99 wastes not otherwise specified
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- | | |
|-------------------------------------|---|
| 14.1 UN-Number | UN2735 |
| ADR, IMDG, IATA | |
| 14.2 UN proper shipping name | 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), ISOPHORONEDIAMINE) |
| ADR | |
| IMDG, IATA | AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), ISOPHORONEDIAMINE) |

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· **14.3 Transport hazard class(es)**

· **ADR**



· **Class** 8 Corrosive substances.
· **Label** 8

· **IMDG, IATA**



· **Class** 8 Corrosive substances.
· **Label** 8

· **14.4 Packing group**

· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**

· **Marine pollutant:** No
· **Special marking (ADR):** 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 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":** UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), ISOPHORONEDIAMINE), 8, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations**
- **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.

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Trade name: ASODUR-B 3356-EFC (B-Komponente)

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• **Relevant phrases**

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H412 Harmful to aquatic life with long lasting effects.

• **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 Corr. 1B: Skin corrosion/irritation – Category 1B
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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