


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


- 1.1 Product identifier
- Trade name: **ASODUR-EK/C (A-Komp.)**
- 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

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

Tel: ++49 (0)5231/953-193
email: SDB@schomburg.de

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:**
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
Epoxy Phenol Novolak Resin
oxirane, mono[(C12-14-alkyloxy)methyl] derivs
- **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.
P273 Avoid release to the environment.

(Contd. on page 2)

Trade name: ASODUR-EK/C (A-Komp.)

(Contd. of page 1)

- 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.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
 · **vPvB:** Not applicable.

· **Determination of endocrine-disrupting properties**

1675-54-3 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: List II

Epoxy Phenol Novolak Resin: List II

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:**

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

· **Dangerous components:**

CAS: 1675-54-3 EINECS: 216-823-5	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C \geq 5 % Skin Irrit. 2; H315: C \geq 5 %	50-100%
CAS: 38640-62-9 EINECS: 254-052-6	Diisopropylnaphtalene ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 1, H410	10-25%
EC number: 701-263-0	Epoxy Phenol Novolak Resin ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	2.5-10%
CAS: 68609-97-2 EINECS: 271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317, EUH205	2.5-10%

· **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**

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.

(Contd. on page 3)

Trade name: **ASODUR-EK/C (A-Komp.)**

(Contd. of page 2)

- **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.
- **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
Avoid eye- and skin contact.
Wear protective equipment. Keep unprotected persons away.
Do not breath in vapour.
Keep away from ignition sources
- **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.
Keep away from heat and direct sunlight.
Avoid splashes. Do not spray on hot surfaces.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
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.

(Contd. on page 4)

Trade name: **ASODUR-EK/C (A-Komp.)**

(Contd. of page 3)

- **Further information about storage conditions:**
Protect from frost.
Keep container tightly sealed.
- **Storage class** 10
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **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**
 - **Appropriate engineering controls**
It must be possible to wash the skin in the working area.
Eye-wash bottle must be available.
 - **Individual protection measures, such as 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 unusing again.
The usual precautionary measures should be adhered to in handling the chemicals.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
 - **Breathing equipment:** Not required.
 - **Hand protection** Hand Protection: Nitril-rubber-latex-gloves.
 - **Material of gloves**
Nitril-rubber-latex-gloves II R: Thickness $\geq 0,5\text{mm}$; Break through time ≥ 480 min
- 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.
 - **Eye/face 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**
- **Physical state** Fluid
- **Colour:** Colourless
- **Smell:** Weak, characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Not determined
- **Boiling point or initial boiling point and boiling range** >200 °C
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.03.2021

Version number 9

Revision: 08.03.2021

Trade name: **ASODUR-EK/C (A-Komp.)**

(Contd. of page 4)

· Flash point:	130 °C
· Self-inflammability:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic at 20 °C:	1,588 mPas
· Solubility	
· Water:	Not miscible or difficult to mix
· Partition coefficient n-octanol/water (log value)	Not determined.
· Steam pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C	1.12 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	
· Form:	Liquid
· Important information on protection of health and environment, and on safety.	
· Explosive properties:	Product is not explosive.
· Change in condition	
· Evaporation rate	Not determined.

· Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

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**
Reacts violently with oxidizing agents
Reacts with strong acids and oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.

(Contd. on page 6)

Trade name: **ASODUR-EK/C (A-Komp.)**

(Contd. of page 5)

- **10.5 Incompatible materials:** Can react with acid and oxidizing agents.
- **10.6 Hazardous decomposition products:**
În case of heating dangerous decomposition products can be arise.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**

1675-54-3 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
Oral LD50 >15,000 mg/kg (rats)
Dermal LD50 23,000 mg/kg (Kan)

38640-62-9 Diisopropylnaphtalene
Oral LD50 >4,000 mg/kg (rats) (OECD 401)
Dermal LD50 >4,000 mg/kg (rats) (OECD 402)

Epoxy Phenol Novolak Resin
Oral LD50 >5,000 mg/kg (rats) (OECD 401)
Dermal LD50 >2,000 mg/kg (rats) (OECD 402)

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs
Oral LD50 >5,000 mg/kg (rats)
Dermal LD50 >4,500 mg/kg (rabbit)
- **Specific symptoms in biological assay:**

38640-62-9 Diisopropylnaphtalene
NOAEL ~170 mg/kg /bw/day (rats) ((6 months))
- **Skin corrosion/irritation**
The product 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.
- **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.
- **Additional toxicological information:** Sensitizing
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**

1675-54-3 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: List II

Epoxy Phenol Novolak Resin: List II

128-37-0 Butylated hydroxytoluene: List II

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**

1675-54-3 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
LC50/96h 2 mg/l (for)
EC50 (48h) (static) 1.8 mg/l (Daphnia magna)

(Contd. on page 7)

Trade name: ASODUR-EK/C (A-Komp.)

(Contd. of page 6)

ERC50 (static) 11 mg/l /72h (Scenedesmus capricornutum)
IC50 >42.6 mg/l /18h (bacterial toxicity)

38640-62-9 DiisopropylNaphtalene

LL50 1.7 mg/l /48h (Daphnia magna) (OECD 202)

Epoxy Phenol Novolak Resin

LC50/96h 5.7 mg/l (Leuciscus idus)
EC50 (48h) 2.55 mg/l (Daphnia magna)
EC50 1.8 mg/l (Senastrum capricornutum) (OECD 201)
IC50 (static) >100 mg/l /3h (activated sludge bacteria)

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

LC50/96h >5,000 mg/l (rainbow trout)
EC50 (48h) (static) 7.2 mg/l (Daphnia magna) (OECD 202)
EC/LC50 (72h) 844 mg/l (algae toxicity)
IC50 (static) >100 mg/l /3h (activated sludge bacteria) (OECD 209)
NOEC 500 mg/l /72h (Pseudokirchneriella subcapitata)

- **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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Remark:** Harmful to fish

- **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, even in small quantities.
Danger to drinking water if even extremely small quantities leak into soil.
Harmful to aquatic organisms

* **SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**

- **Recommendation**

Cured materials which mixed with epoxy resin can put to the household-rubbish, after consulting the waste disposal.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **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 99 wastes not otherwise specified
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
HP4 Irritant - skin irritation and eye damage

(Contd. on page 8)

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

Printing date 08.03.2021

Version number 9

Revision: 08.03.2021

Trade name: **ASODUR-EK/C (A-Komp.)**

(Contd. of page 7)

HP13 Sensitising
HP14 Ecotoxic

· **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 or ID number**· **ADR, IMDG, IATA** UN3082· **14.2 UN proper shipping name**

· **ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, Diisopropylnaphtalene)

· **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, Diisopropylnaphtalene), MARINE POLLUTANT

· **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, Diisopropylnaphtalene)

· **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

· **Stowage Category** A

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

(Contd. on page 9)

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

Printing date 08.03.2021

Version number 9

Revision: 08.03.2021

Trade name: **ASODUR-EK/C (A-Komp.)**

(Contd. of page 8)

· **Transport/Additional information:**

· **ADR**

- **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** -

· **IMDG**

- **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

· **UN "Model Regulation":**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE, DIISOPROPYLNAPHTALENE), 9, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **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
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.
- **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**

- 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.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- EUH205 Contains epoxy constituents. May produce an allergic reaction.

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

· **Contact:** Mr. Guido Herfort

· **Date of previous version:** 08.03.2021

· **Version number of previous version:** 8

· **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

(Contd. on page 10)

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

Printing date 08.03.2021

Version number 9

Revision: 08.03.2021

Trade name: ASODUR-EK/C (A-Komp.)

(Contd. of page 9)

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
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
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

GB