

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

- 1.1 Product identifier
- Trade name: **ASODUR-EKF (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 resin adhesive
- 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**



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. |
| ----- | |
| Aquatic Chronic 3 | H412 Harmful to aquatic life with long lasting effects. |

- 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
- **Signal word** Warning
- **Hazard-determining components of labelling:**
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
Epoxy Phenol Novolak Resin
Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane oxirane, mono[(C12-14-alkyloxy)methyl] derivs
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)
- **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful 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/hearing protection.

(Contd. on page 2)

Trade name: **ASODUR-EKF (A-Komp.)**

(Contd. of page 1)

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.

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.

· **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 modified Epoxy-resins.

· **Dangerous components:**

CAS: 1675-54-3 EINECS: 216-823-5	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	2.5-10%
-------------------------------------	---	---------

⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317

Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 %
Skin Irrit. 2; H315: C ≥ 5 %

EC number: 701-263-0	Epoxy Phenol Novolak Resin	2.5-10%
----------------------	----------------------------	---------

⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317

EC number: 701-333-0	Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane	2.5-10%
----------------------	--	---------

⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317;
Aquatic Chronic 3, H412

CAS: 68609-97-2 EINECS: 271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	<2.5%
--------------------------------------	---	-------

⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317, EUH205

CAS: 123-26-2 EINECS: 204-613-6	N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	<0.5%
------------------------------------	--	-------

⚠ Skin Sens. 1B, H317; Aquatic Chronic 3, H412

· **Additional information** 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 of breathing: artificial respiration.

Take up a doctor immediately!

· **After inhalation**

Supply fresh air or oxygen; call for doctor.

(Contd. on page 3)

Trade name: ASODUR-EKF (A-Komp.)

(Contd. of page 2)

Supply fresh air and call for doctor for safety reasons.

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

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

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.

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

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**

Wear protective clothing.

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.

Inform respective authorities in case product reaches water or sewage system.

The product may not leak out in sewerage system, stretch of water or soil.

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

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

Ensure adequate ventilation.

· **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.

Prevent formation of aerosols.

(Contd. on page 4)

Trade name: **ASODUR-EKF (A-Komp.)**

(Contd. of page 3)

- 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:** 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.
- **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 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:**
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
When the product is sprayed use respiration filter P2.
 - **Hand protection**
Hand Protection: Nitril-rubber-latex-gloves.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
 - **Material of gloves**
Nitril-rubber-latex-gloves II R: Thickness $\geq 0,5\text{mm}$; Break through time $\geq 480\text{ min}$
- 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.

GB

(Contd. on page 5)

Trade name: **ASODUR-EKF (A-Komp.)**

(Contd. of page 4)

SECTION 9: Physical and chemical properties· **9.1 Information on basic physical and chemical properties**· **General Information**

· Physical state	Fluid
· Colour:	According to product specification
· Smell:	Weak, characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	Not determined
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable
· Self-inflammability:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· 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	1.8 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· **9.2 Other information**

· Appearance:	
· Form:	Viscous
· 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

(Contd. on page 6)

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

Printing date 25.02.2021

Version number 2

Revision: 25.02.2021

Trade name: **ASODUR-EKF (A-Komp.)**

(Contd. of page 5)

· 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 with strong acids and oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

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) |
- Epoxy Phenol Novolak Resin**
- | | | |
|--------|------|--------------------------------|
| Oral | LD50 | >5,000 mg/kg (rats) (OECD 401) |
| Dermal | LD50 | >2,000 mg/kg (rats) (OECD 402) |
- Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane**
- | | | |
|--------|------|--------------------------------|
| Oral | LD50 | 3,595 mg/kg (rats) |
| 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) |
- 64741-65-7 Naphtha (petroleum), heavy alkylate**
- | | | |
|------------|----------|----------------------------------|
| Oral | LD50 | >5,000 mg/kg (rats) (OECD 401) |
| Dermal | LD50 | >5,000 mg/kg (rabbit) (OECD 402) |
| Inhalative | LC50/4 h | >4,951 mg/l (rats) (OECD 403) |
- 123-26-2 N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)**
- | | | |
|------------|----------|---------------------|
| Oral | LD50 | >2,000 mg/kg (rats) |
| Inhalative | LC50/4 h | 5.05 mg/l (rats) |
- **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.

(Contd. on page 7)

Trade name: **ASODUR-EKF (A-Komp.)**

(Contd. of page 6)

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

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 (Selenastrum capricornutum) (OECD 201)
IC50 (static)	>100 mg/l /3h (activated sludge bacteria)

Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane

LC50/96h	101 mg/l (fish toxicity) (QSAR)
EC50 (48h)	10-100 mg/l (Daphnia magna)
EC50 (96h)	1,073.67 mg/l (algae toxicity) (QSAR)

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)

64741-65-7 Naphtha (petroleum), heavy alkylate

EC/LC50 (48h) (static)	>1,000 mg/l (Daphnia magna) (OECD 202)
EL 50 (static)	>1,000 mg/l /72h (Pseudokirchneriella subcapitata)
LL50 (static)	>1,000 mg/l /96h (rainbow trout) (OECD 203)
NOEL	0.192 mg/l (fish toxicity)

123-26-2 N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)

EC 50	>100 mg/kg /72h (algae toxicity)
EL 50	>10 mg/l /48h (Daphnia magna)
LL50	>10 mg/l /96h (rainbow trout)

- **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.

(Contd. on page 8)

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

Printing date 25.02.2021

Version number 2

Revision: 25.02.2021

Trade name: **ASODUR-EKF (A-Komp.)**

(Contd. of page 7)

- **12.6 Endocrine disrupting properties**
For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **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.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Can be deposited with household garbage after solidification following consultation with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
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
 - HP4 Irritant - skin irritation and eye damage
 - HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
 - HP14 Ecotoxic
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|-----------------|
| · 14.1 UN number or ID number
· ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name
· ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es)
· ADR, ADN, IMDG, IATA
· Class | Void |
| · 14.4 Packing group
· ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards:
· Marine pollutant: | Yes |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · UN "Model Regulation": | Void |

GB

(Contd. on page 9)

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

Printing date 25.02.2021

Version number 2

Revision: 25.02.2021

Trade name: **ASODUR-EKF (A-Komp.)**

(Contd. of page 8)

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.
- **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**
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H411 Toxic to aquatic life with long lasting effects.
 - H412 Harmful 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:** Product Safety Department
- **Date of previous version:** 25.02.2021
- **Version number of previous version:** 1
- **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
 - 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. 1B: Skin sensitisation – Category 1B
 - 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.**

GB