

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

Printing date 09.11.2023

Version number 26 (replaces version 25)

Revision: 09.11.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking· **1.1 Product identifier**· **Trade name: ASODUR-V2370 (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

Fax: ++49 (0)5231/953-123

email: info@schomburg.de

web: www.schomburg.de

· **Informing department:**

Department: Environment and Safety

If you have any questions about the Environment and Safety Department, please contact our department.

e-Mail: SDB@schomburg.de

· **1.4 Emergency telephone number:**

Poison Control Berlin (24 hrs.)

German & English

Tel: ++49 (0)30/30686700

SECTION 2: Hazards identification· **2.1 Classification of the substance or mixture**· **Classification according to Regulation (EC) No 1272/2008**

environment

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



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 GB CLP regulation.

· **Hazard pictograms** GHS07, GHS09· **Signal word** Warning

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Trade name: ASODUR-V2370 (A-Komp.)

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- **Hazard-determining components of labelling:**
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
phenol
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.
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.
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.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
 - **Description:** Preparation based on Bisphenol-A-Epichlorhydrin resin molecular weight ≤ 700 .
 - **Dangerous components:**
- | | | |
|--|---|---------|
| CAS: 1675-54-3
EINECS: 216-823-5
Index number: 603-073-00-2 | 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: Skin Irrit. 2; H315: C \geq 5 %
Eye Irrit. 2; H319: C \geq 5 % | 10-25% |
| CAS: 38640-62-9
EINECS: 254-052-6 | Diisopropylnaphtalene
⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 1, H410 | 10-25% |
| CAS: 9003-36-5
NLP: 500-006-8 | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317 | 2.5-10% |
| CAS: 61788-44-1
EINECS: 262-975-0 | phenol
⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317 | 2.5-10% |
| CAS: 68609-97-2
EINECS: 271-846-8
Index number: 603-103-00-4 | oxirane, mono[(C12-14-alkyloxy)methyl] derivs
⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317, EUH205 | 2.5-10% |
- **Additional information** For the wording of the listed hazard phrases refer to section 16.

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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.

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

Supply fresh air and call for doctor for safety reasons.

· **After skin contact**

Don't use solvents to clean the skin.

Instantly wash with water and soap and rinse thoroughly.

Change immediately contaminated clothes.

· **After eye contact**

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

· **After swallowing**

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

Do not induce vomiting; instantly call for medical help.

Show the packaging 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.

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**

Collect contaminated fire fighting water separately. It must not enter drains.

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

Bring persons out of danger.

Wear protective equipment. Keep unprotected persons away.

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- **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.
- **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.
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:**
Recommended storage temperature: 10 - 30°C
Keep/store only in the original container.
- **Information about storage in one common storage facility:**
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**
The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Do not eat, drink or smoke while working.
Use skin protection cream for preventive skin protection.
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**
Do not reuse one-way-gloves
Hand Protection: Nitril-rubber-latex-gloves.

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In case of wearing synthetic protective gloves use cotton-gloves as underwear.
Treat all uncovered body parts with fat-free or low-fat (oil in water emulsion) skin protection cream.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

When handling chemical substances, only chemical protective gloves with a CE mark including a four-digit test number may be worn. The design of chemical protective gloves must be selected

depending on the concentration and quantity of hazardous substances in the workplace. It is recommended

It is recommended to clarify the chemical resistance of the above-mentioned protective gloves for special applications

with the glove manufacturer. Recommendation according to EN 374: For short-term work or as splash protection: Gloves made of butyl rubber/nitrile rubber (0.4 mm), Change and dispose of contaminated gloves immediately.

Change and dispose of contaminated gloves immediately. For permanent product contact: Viton gloves (0.4 mm)

Penetration time >30 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 recommended during refilling.

- **Body protection:**

Use an Overall of heavy cotton or non-returnable Tyvek/Saranex 23 P vleece.

Contaminated protection clothes must be cleaned carefully before reuse.

SECTION 9: Physical and chemical properties

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

- **General Information**

- **Physical state**

Fluid

- **Colour:**

Pigmented

- **Smell:**

weak

- **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:**

0.4 % (V)

- **Upper:**

4.67 % (V)

- **Flash point:**

>93 °C

- **Auto-ignition temperature:**

> 300 °C

- **Decomposition temperature:**

Not determined.

- **pH**

Not determined.

- **Viscosity:**

- **Kinematic viscosity**

Not determined.

- **dynamic at 20 °C:**

6,300 mPas

- **Solubility**

- **Water:**

Not miscible or difficult to mix

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· Partition coefficient n-octanol/water (log value)	Not determined.
· Steam pressure:	0.003 hPas (20°)
· Density and/or relative density	
· Density at 20 °C	1.42 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.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Solvent content:	
· Solids content:	0.0 %
· 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 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.

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· **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)

9003-36-5 Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Oral LD50 >5,000 mg/kg (rats)

Dermal LD50 >2,000 mg/kg (rats)

61788-44-1 phenol

Oral LD50 >2,000 mg/kg (rats)

Dermal LD50 >2,000 mg/kg (rats)

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.

· **Additional toxicological information:** Sensitizing

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

61788-44-1 phenol: 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)

38640-62-9 Diisopropylnaphtalene

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

9003-36-5 Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

LC50/96h 2.54 mg/l (fish toxicity)

EC50 (48h) 2.55 mg/l (Daphnia magna)

EC/LC50 (72h) 1.8 mg/l (algae toxicity)

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61788-44-1 phenol

EC50 (48h)	1-10 mg/l (Daphnia magna)
EC/LC50 (72h)	3.14 mg/l (Scenedesmus subspicatus)
LL50	14.8 mg/l (fish toxicity)

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:**

The mixture contains the following substances that fulfil the PBT criteria according to UK REACH, Annex XIII:

Bis(isopropyl)naphthalene.

· **vPvB:**

The mixture contains the following substances that fulfil the vPvB criteria according to UK REACH, Annex XIII:

Bis(isopropyl)naphthalene.

· **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· **Remark:** Toxic for fish

· **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.

Toxic for aquatic organisms

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.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN3082

· **14.2 UN proper shipping name**

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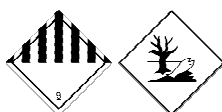
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· ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorhydrin); epoxy resin(number average molecular weight<700))
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorhydrin); epoxy resin(number average molecular weight<700)), MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorhydrin); epoxy resin(number average molecular weight<700))

· **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
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· **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.

· **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
· 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

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- | | |
|---|--|
| <ul style="list-style-type: none"> · UN "Model Regulation": | UN 3082 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**
- **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
- **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:**

Department EHS (Environment-Health-Safety)
Environment protection department.

- **Contact:** Department EHS (Environment-Health-Safety)

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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
 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.**

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