

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

Printing date 10.11.2023

Version number 1

Revision: 10.11.2023

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

- **1.1 Product identifier**
- **Trade name: ASODUR-V2260 (B-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** Sealer
- **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
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- **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**



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
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 GB CLP regulation.
- **Hazard pictograms** GHS05, GHS07

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GB









Trade name: ASODUR-V2260 (B-Komp.)

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- **Signal word** Danger
- **Hazard-determining components of labelling:**
Aliphatisches Polyisocyanat
poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-, phosphate
N-ethyl-diisopropylamine
hexamethylene-di-isocyanate
- **Hazard statements**
H332 Harmful if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
- **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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**
The substances in the mixture do not fulfil the PBT/vPvB criteria according to UK REACH, Annex XIII.
This product does not contain any substance that exhibits endocrine disrupting properties towards humans, as no ingredient fulfils the criteria.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
 - **Description:** formulated polyisocyanate
 - **Dangerous components:**
- | | | |
|--|--|---------|
| CAS: 28182-81-2 | Aliphatisches Polyisocyanat
 Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412 | 50-100% |
| CAS: 7087-68-5
EINECS: 230-392-0 | N-ethyl-diisopropylamine
 Flam. Liq. 2, H225;  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | 2.5-10% |
| CAS: 9046-01-9 | poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-, phosphate
 Eye Dam. 1, H318;  Skin Irrit. 2, H315 | 2.5-10% |
| CAS: 822-06-0
EINECS: 212-485-8
Index number: 615-011-00-1 | hexamethylene-di-isocyanate
 Acute Tox. 3, H331;  Resp. Sens. 1, H334;  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204
Specific concentration limits: Resp. Sens. 1; H334: C \geq 0.5 %
Skin Sens. 1; H317: C \geq 0.5 % | <0.5% |
- **Additional information** For the wording of the listed hazard phrases refer to section 16.

GB

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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**

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. Then consult doctor.

· **After swallowing**

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.

· 5.2 Special hazards arising from the substance or mixture

Fire produces carbon dioxide, carbon monoxide, nitrogen oxides and traces of hydrogen cyanide (hydrocyanic acid).

Do not inhale explosion and fire gases.

Formation of poisonous gases during heating or in fires.

· 5.3 Advice for firefighters

· **Protective equipment:**

Wear full protective suit.

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

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.

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- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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**
Change contaminated or damaged gloves and contaminated clothing immediately and wash skin immediately
Do not eat, drink or smoke at work.
Ensure good ventilation/extraction at the workplace.
Keep out of the reach of 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 the container tightly closed in a dry, well-ventilated place.
The Product reacts with water and CO₂-Gas will be given off.
In tight closed containers pressure may arise and the cover can burst.
- **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.
Store in a locked cabinet and out of the reach of children.
- **7.3 Specific end use(s)**
Further information:
Information system of the Berufsgenossenschaft der Bauwirtschaft at www.gisbau.de
Leaflet M044, Production and processing of polyurethanes/isocyanates. (Ed.: Berufsgenossenschaft of the Chemical Industry)

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
- 822-06-0 hexamethylene-di-isocyanate (<0.5%)**
WEL Short-term value: 0.07 mg/m³
 Long-term value: 0.02 mg/m³
 Sen; as -NCO
- **Ingredients with biological limit values:**
- 822-06-0 hexamethylene-di-isocyanate (<0.5%)**
BMGV 1 µmol creatinine/mol
 Medium: urine
 Sampling time: At the end of the period of exposure
 Parameter: isocyanate-derived diamine
- **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.

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· **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.

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.

· **Hand protection**

PVC gloves

Do not reuse one-way-gloves

Hand Protection: Nitril-rubber-latex-gloves.

In case of wearing synthetic protective gloves use cotton-gloves as underwear.

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

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.

PVC gloves

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

PVC gloves

· **For the permanent contact gloves made of the following materials are suitable:** PVC gloves

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

PVC gloves

· **As protection from splashes gloves made of the following materials are suitable:** PVC gloves

· **Not suitable are gloves made of the following materials:** PVC gloves

· **Eye/face protection** In case of splashing use protecting basket-glasses.

· **Body protection:**

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

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Contaminated protection clothes must be cleaned carefully before reuse.

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

· Physical state	Fluid
· Colour:	Transparent
· 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:	>106 °C
· Decomposition temperature:	Not determined.
· pH	Mixture is non-soluble (in water).
· Viscosity:	
· Kinematic viscosity at 20 °C	1,640-2,440 s (DIN 53211/4)
· dynamic:	Not determined.
· Solubility	
· Water:	miscible
· Partition coefficient n-octanol/water (log value)	Not determined.
· Steam pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C	1.15 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· 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

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- | | |
|--|------|
| · 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**
- **Information on the shelf life** Risk of polymerisation.
- **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:**
Acids
Lyes
Alcohols
Strong oxidationresorts
- **10.6 Hazardous decomposition products:** Hydrogen cyanide (prussic acid)

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if inhaled.
- **LD/LC50 values that are relevant for classification:**
28182-81-2 Hexamethylene diisocyanate oligomers
oral / LD50mg/kg >2500 / rat (OECD) / ECHA Dossier
dermal / LD50mg/kg >2000 / rabbit / ECHA dossier
inhalative vapour / ATE 11mg/l
inhalative dust/mist / ATE 1,5mg/l

7087-68-5 Ethyl-diisopropylamin
oral / ATE 500mg/kg
dermal / LD50mg/kg / > 2000 / rat (OECD 402) ECHA Dossier
inhalative vapour ATE 3mg/l
inhalative dust/mist ATE 0,5mg/l

12788-93-1 Phosphorsäurebutylester
oral / LD50mg/kg / 2474 / rat (OECD 401) ECHA Dossier

822-06-0 hexamethylene-1,6 diisocyanate
oral / LD50mg/kg 746 / rat (OECD) / ECHA Dossier
dermal / LD50mg/kg >7000 / rat / ECHA Dossier
inhalative vapour (4h) / LC50mg/l / 0,124mg/l / Rat (OECD 403) / ECHA Dossier
inhalative dust/mist / ATE 0,05mg/l
- **28182-81-2 Aliphatisches Polyisocyanat**
Oral LD50 >2,000 mg/kg (rats)
Dermal LD50 >2,000 mg/kg (rabbit)
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.

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- **Respiratory or skin sensitisation**
Contains isocyanates. May cause an allergic reaction. May cause an allergic skin reaction.
(Hexamethylene diisocyanate oligomers; Hexamethylene-1,6-diisocyanate)
May cause an allergic skin reaction.
- **STOT-single exposure** May cause respiratory irritation.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**
None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Harmful to 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.
Harmful to 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.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- | | |
|--|---|
| <ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR, IMDG, IATA | UN1759 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA | 1759 CORROSIVE SOLID, N.O.S. (N-ethyl-diisopropylamine, BUTYL ACID PHOSPHATE)
CORROSIVE SOLID, N.O.S. (N-ethyl-diisopropylamine, BUTYL ACID PHOSPHATE) |

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- **14.3 Transport hazard class(es)**

- **ADR, IMDG, IATA**



- **Class** 8 Corrosive substances.
- **Label** 8

- **14.4 Packing group**

- **ADR, IMDG, IATA** III

- **14.5 Environmental hazards:** Not applicable.

- **14.6 Special precautions for user**

- **Warning:** Corrosive substances.
- **Kemler Number:** 80
- **EMS Number:** F-A,S-B
- **Segregation groups** (SGG18) Alkalis, (SGG1) acids
- **Stowage Category** A

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

- Not applicable.

- **Transport/Additional information:**

- **ADR**

- **Limited quantities (LQ)** 5 kg
- **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)** 5 kg
- **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 1759 CORROSIVE SOLID, N.O.S. (N-ETHYLDIISOPROPYLAMINE, BUTYL ACID PHOSPHATE), 8, 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.

- **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**

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.

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- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H412 Harmful to aquatic life with long lasting effects.
- EUH204 Contains isocyanates. May produce an allergic reaction.

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

· **Contact:** Environment protection department.

· **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

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

GB