

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

Printing date 22.07.2021



Version number 12

Revision: 22.07.2021

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

- 1.1 Product identifier
- Trade name: **ASODUR-B3311 (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
- **Informing department:**
Product Safety Department
- Tel: ++49 (0)5231/953-770
email: SDB@schomburg.de

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 CLP regulation.
- **Hazard pictograms** GHS07, GHS09
- **Signal word** Warning
- **Hazard-determining components of labelling:**
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
Polypropylenglycol Diglycidyl Ether
Epoxy Phenol Novolak Resin
maleic anhydride
Fatty acids, C14-18 and C16-18-unsatd., 2-phenoxyethyl esters, maleated
1,4-bis(2,3-epoxypropoxy)butane
oxirane, mono[(C12-14-alkyloxy)methyl] derivs
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)
decarboxylating cashew nut shell liquid

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Trade name: ASODUR-B3311 (A-Komp.)

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· **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 Chemical characterisation: Mixtures**

- **Description:** Solvent free preparation based on modified Epoxy-resins.

· **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 ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 %	25-50%
CAS: 26142-30-3 EC number: 607-873-2 EC number: 701-263-0	Polypropylenglycol Diglycidyl Ether ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Epoxy Phenol Novolak Resin ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	2.5-10% 2.5-10%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	<2.5%
CAS: 2425-79-8 EINECS: 219-371-7 Index number: 603-072-00-7	1,4-bis(2,3-epoxypropoxy)butane ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	<1%
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	<1%
CAS: 933999-84-9 EC number: 618-939-5	Reaction products of hexane-1,6-diol with 2-(chloromethyl) oxirane (1:2) ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	<1%
CAS: 8007-24-7 EC number: 700-991-6	decarboxylating cashew nut shell liquid ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317	<0.5%

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CAS: 91001-64-8	Fatty acids, C14-18 and C16-18-unsatd., 2-phenoxyethyl esters, maleated ⚠ Eye Irrit. 2, H319; Skin Sens. 1A, H317	<0.5%
CAS: 108-31-6 EINECS: 203-571-6 Index number: 607-096-00-9	maleic anhydride ⚠ Resp. Sens. 1, H334; STOT RE 1, H372; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	<0.5%

· **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.

· **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.

· **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.

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained breathing apparatus.

· **Additional information**

Burst- and explosion-danger by increasing pressure.

In case of fire chill the container with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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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.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or water bodies.
Build barriers with sand, soil or other sealings.
- **6.3 Methods and material for containment and cleaning up:**
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**
Keep away from heat and direct sunlight.
Work with fresh air supply, keep doors and windows open.
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 oxidising agents.
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**
- **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.
- **Components with critical values that require monitoring at the workplace:**
- 108-31-6 maleic anhydride (<0.5%)**
WEL Short-term value: 3 mg/m³
Long-term value: 1 mg/m³
Sen
- **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.
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 unsing again.

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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:** Not required.

· **Protection of hands:** Hand Protection: Nitril-rubber-latex-gloves.

· **Material of gloves**

Nitril-rubber-latex-gloves II R: Thickness $\geq 0,5\text{mm}$; Penetration 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 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

· Appearance:

Form: Fluid
Colour: Different according to colour

· Smell: Characteristic

· Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/freezing point: Not determined
Initial boiling point and boiling range: >200 °C

· Flash point: >110 °C

· Inflammability (solid, gaseous) Not applicable.

· Decomposition temperature: Not determined.

· Self-inflammability: Product is not selfigniting.

· Explosive properties: Product is not explosive.

· Critical values for explosion:

Lower: Not determined.
Upper: Not determined.

· Steam pressure: Not determined.

· Density at 20 °C 1,55 g/cm³

· Relative density Not determined.

· Vapour density Not determined.

· Evaporation rate Not determined.

· Solubility in / Miscibility with

Water: Dispersible

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

dynamic at 20 °C: 8,500 mPas
kinematic: Not determined.

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· 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**
Reacts violently with oxidizing agents
Reacts with strong acids and oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Can be react with heavy 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 toxicological effects**
 - **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) |
- 26142-30-3 Polypropylenglycol Diglycidyl Ether**
- | | | |
|--------|------|--------------------------------|
| Oral | LD50 | >2,000 mg/kg (rats) (OECD 401) |
| Dermal | LD50 | >2,000 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) |
- 100-51-6 Benzyl alcohol**
- | | | |
|------------|------|------------------------------|
| Oral | LD50 | 1,040 mg/kg (mouse) |
| | | 1,620 mg/kg (rats) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |
| Inhalative | LC50 | 4.178 mg/l (rats) (OECD 403) |
- 2425-79-8 1,4-bis(2,3-epoxypropoxy)butane**
- | | | |
|--------|------|---|
| Oral | LD50 | 1,163 mg/kg (rats) (OECD 401) |
| Dermal | LD50 | >2,150 mg/kg (Kan) (OECD 402) |
| | | EC/LC50 (24h) 75 mg/l (Daphnia (acute) toxicity) (OECD 202) |
- 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs**
- | | | |
|--------|------|-----------------------|
| Oral | LD50 | >5,000 mg/kg (rats) |
| Dermal | LD50 | >4,500 mg/kg (rabbit) |
- 933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)**
- | | | |
|--------|------|-----------------------|
| Oral | LD50 | 2,190 mg/kg (rats) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |

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8007-24-7 decarboxylating cashew nut shell liquid

Oral LD50 5,000 mg/kg (rats) (OECD 423)
Dermal LD50 >2,000 mg/kg (rats) (OECD 402)

91001-64-8 Fatty acids, C14-18 and C16-18-unsatd., 2-phenoxyethyl esters, maleated

Oral LD50 8,295 mg/kg (rats) (OECD 401)

108-31-6 maleic anhydride

Oral LD50 1,090 mg/kg (rats) (OECD 401)
Dermal LD50 2,620 mg/kg (Kan)

· **Primary irritant effect:**· **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:**· **CMR effects (carcinogenity, 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** 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.

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)

26142-30-3 Polypropylenglycol Diglycidyl Ether

LC50/96h 160 mg/l (Leuciscus idus)
EC50 (48h) 220 mg/l (Daphnia magna)

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)

100-51-6 Benzyl alcohol

EC 50 390 mg/kg / (24h) (Pseudomas putida)
LC50/96h 460 mg/l (Pimephales promelas) (EPA OPP 72-1)
645 mg/l (orfe)
EC10 >658 mg/l /16h (Pseudomas putida) (DIN 38412)
EC50 (48h) 230 mg/l (Daphnia magna) (OECD 202)

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EC/LC50 (72h) (static) 770 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
 NOEC 51 mg/l /21d (Daphnia magna) (OECD 211)
 310 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

2425-79-8 1,4-bis(2,3-epoxypropoxy)butane

LC50/96h 19.8 mg/l (fish toxicity) (OECD 203)
 EC/LC50 (72h) 160 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

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)

933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

LC50/96h 30 mg/l (Leuciscus idus)
 EC50 (48h) 47 mg/l (Daphnia magna)
 23.1 mg/l (algae toxicity)

8007-24-7 decarboxylating cashew nut shell liquid

EC/LC50 (72h) 1,300 mg/l (Skeletonema costatum)
 LL50 >1,000 mg/l (fish toxicity) ((96 h))

91001-64-8 Fatty acids, C14-18 and C16-18-unsatd., 2-phenoxyethyl esters, maleated

EC50 >1,000 mg/l (Atmungshem. von kommunalem Belebtschlamm) (OECD 209)
 EL 50 (static) >100 mg/l /48h (Daphnia magna) (OECD 202)
 >100 mg/l /72h (Pseudokirchneriella subcapitata) (OECD 201)
 LL50 >100 mg/l /96h (rainbow trout) (OECD 203)

108-31-6 maleic anhydride

LC50/96h (static) 75 mg/l (rainbow trout)
 EC50 (48h) 42.81 mg/l (Daphnia magna) (OECD 202)
 ERC50 74.35 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
 NOEC 10 mg/l /21d (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 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.

- **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.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA 	UN3082
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA 	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, Epoxy Phenol Novolak Resin) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, Epoxy Phenol Novolak Resin), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, Epoxy Phenol Novolak Resin)
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG, IATA 	
	
<ul style="list-style-type: none"> · Class · Label 	9 Miscellaneous dangerous substances and articles. 9
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	III
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA): 	Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> · 14.6 Special precautions for user · Kemler Number: · EMS Number: · Stowage Category 	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: · ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3

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<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE, EPOXY PHENOL NOVOLAK RESIN), 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
- **National regulations**
- **Technical instructions (air):**
- **Class Share in %**
- **NK** 0.4
- **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**
 H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.
- **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

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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
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
Skin Sens. 1A: Skin sensitisation – Category 1A
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
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.**

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