

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 16.07.2025

Version number 9 (replaces version 8)

Revision: 16.07.2025

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**Trade name: **Composil**

Article number: 4 04 xx

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

Silicate sealing

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
 Lechstrasse 28
 D 90451 Nürnberg

Tel. +49(0)911-642960

Fax. +49(0)911-644456

e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
 Tel. +49(0)911-64296-59
 Reachable during the following office hours:
 Monday – Thursday from 07:30 a.m. to 16:30 p.m.
 Friday from 07:30 a.m. to 13:30 p.m.

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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Void

Hazard pictograms

Void

Signal word

Void

Hazard-determining components of labelling:

Not applicable.

Hazard statements

Void

Additional information:

Products treated with biocide OIT (CAS 26530-20-1).
 Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.
 Safety data sheet available on request.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB:

1760-24-3 | N-(3-(trimethoxysilyl)propyl)ethylenediamine

Determination of endocrine-disrupting properties

For information on endocrine disrupting properties see section 11.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

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| | | |
|--|---|------|
| · <u>Dangerous components:</u> | | |
| CAS: 58190-57-1 Reg.nr.: 01-2119982962-22-0000 | Ethyl tris (acetoximo) silane STOT RE 2, H373 | 1-5% |
| CAS: 1760-24-3 EINECS: 217-164-6 Reg.nr.: 01-2119970215-39 | N-(3-(trimethoxysilyl)propyl)ethylenediamine Eye Dam. 1, H318 Skin Sens. 1, H317; STOT SE 3, H335 vPvB | <1% |

· 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: Immediately remove any clothing soiled by the product.
No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult 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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents:

Water with full jet

- **5.2 Special hazards arising from the substance or mixture**

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)

· **5.3 Advice for firefighters**

- Protective equipment: Wear self-contained respiratory protective device.
- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

- **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

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· **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**

No dangerous substances are released.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

· **Information about fire - and explosion protection:**

No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

No special requirements.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

· **Further information about storage conditions:**

None.

· **Storage class:**

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· **7.3 Specific end use(s)**

No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit 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.

· **DNELs**

58190-57-1 Ethyl tris (acetoximo) silane

| | | |
|------------|-----------------------------|-----------------------------------|
| Oral | DNEL (Langzeit-wiederholt) | 0.03 mg/kg bw/day (BEV) |
| Dermal | DNEL (Langzeit-wiederholt) | 0.059 mg/kg bw/day (ARB) |
| | | 0.03 mg/kg bw/day (BEV) |
| Inhalative | DNEL (Langzeit-wiederholt) | 0.419 mg/m ³ Air (ARB) |
| | | 0.103 mg/m ³ Air (BEV) |

1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

| | | |
|------------|-----------------------------|----------------------------------|
| Oral | DNEL (Langzeit-wiederholt) | 2.5 mg/kg bw/day (BEV) |
| Dermal | DNEL (Kurzzeit-akut) | 5 mg/kg bw/day (ARB) |
| | | 17 mg/kg bw/day (BEV) |
| | DNEL (Langzeit-wiederholt) | 5 mg/kg bw/day (ARB) |
| | | 2.5 mg/kg bw/day (BEV) |
| Inhalative | DNEL (Langzeit-wiederholt) | 35.5 mg/m ³ Air (ARB) |
| | | 8.7 mg/m ³ Air (BEV) |

· **PNECs**

58190-57-1 Ethyl tris (acetoximo) silane

| | |
|----------------|----------------|
| PNEC (wässrig) | 2.4 mg/l (KA) |
| | 0.24 mg/l (SW) |

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| | |
|---|---|
| PNEC (fest) | 205 mg/kg Trockengew (MWS) 2,047 mg/kg Trockengew (SWS) |
| 1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine | |
| PNEC (wässrig) | 25 mg/l (KA) 0.0062 mg/l (MW) 0.062 mg/l (SW) 0.62 mg/l (WAS) |
| PNEC (fest) | 0.0075 mg/kg Trockengew (BO) 0.005 mg/kg Trockengew (MWS) 0.05 mg/kg Trockengew (SWS) |

· Additional information: The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· Appropriate engineering controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols.

· Respiratory protection:

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Preventive skin protection by use of skin-protecting agents is recommended.

· Hand protection

After use of gloves apply skin-cleaning agents and skin cosmetics.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· Material of gloves

Butyl rubber, BR

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

· Eye/face protection

Goggles recommended during refilling

· Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties

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

· General Information

· Colour:

Different according to colouring

· Odour:

Specific type

· Melting point/freezing point:

Undetermined.

· Boiling point or initial boiling point and boiling range

Undetermined.

· Flash point:

Not applicable.

· Auto-ignition temperature:

~430 °C

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| | |
|---|---|
| · pH | Not determined. |
| · Viscosity: | |
| · Kinematic viscosity at 20 °C | 0 s (DIN 53211/4) |
| · Dynamic: | Not determined. |
| · Solubility | |
| · water: | Not miscible or difficult to mix. |
| · Vapour pressure: | Not determined. |
| · Density and/or relative density | |
| · Density: | Not determined. |
| · 9.2 Other information | |
| · Appearance: | |
| · Form: | Pasty |
| · Important information on protection of health and environment, and on safety. | |
| · Ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Product does not present an explosion hazard. |
| · 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 and stored according to specifications. |
| · 10.3 Possibility of hazardous reactions | Reacts with strong oxidising 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: | Small quantities of formaldehyde may be formed when heated (150-180°C) |

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 relevant for classification:

58190-57-1 Ethyl tris (acetoximo) silane

| | | |
|--------|-------|-------------------|
| Oral | LD50 | 2,500 mg/kg (rat) |
| | NOAEL | 11.87 mg/kg (rat) |
| Dermal | LD50 | 2,500 mg/kg (rat) |

1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

| | | |
|------------|----------|-----------------------------|
| Oral | LD50 | 2,995 mg/kg (rat) |
| | NOEL | ≥500 mg/kg (rat) (OECD 422) |
| | NOAEL | ≥500 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |
| Inhalative | LC50/4 h | 1.49 mg/l (rat) |

- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- 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.

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information**12.1 Toxicity**

· Aquatic toxicity:

58190-57-1 Ethyl tris (acetoximo) silane

| | |
|----------|---|
| EC50/48h | 678.73 mg/l (daphnia magna) (OECD-Prüfrichtlinie 202) |
| NOEC | 62.34 mg/kg (Selenastrum capricornutum) (OECD-Prüfrichtlinie 201) |
| EC50/72h | 315.36 mg/l (Selenastrum capricornutum) (OECD-Prüfrichtlinie 201) |
| LC50/96h | 696.76 mg/l (Pimephales promelas) (OECD-Prüfrichtlinie 203) |

1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

| | |
|-----------|--|
| EC50 | 435 mg/l (Klärschlamm: Atmungs-/Vermehrungshemmung) |
| | 67 mg/l (pseudomonas putida) (DIN 38412 part 8) |
| IC50/72h | 8.8 mg/l (algae) (OECD 201) |
| EC50/48h | 23 mg/l (daphnia magna) (OECD 202) |
| ErC50/72h | 8.8 mg/l (Pseudokirchneriella subcapitata) (OECD 201) |
| EC50/16h | 67 mg/l (pseudomonas putida) |
| NOEC | 3.1 mg/kg (algae) (OECD 201) |
| | ≥1,000 mg/kg (Eisenia fetida (Regenwürmer)) (OECD 207) |
| NOELR/72h | 3.1 mg/l (Pseudokirchneriella subcapitata) (OECD 201) |
| NOEC/21d | >1 mg/l (daphnia magna) |
| EC50/48h | 87.4 mg/l (daphnia magna) |
| EC50/72h | 5 mg/l (algae) |

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| | |
|----------|------------------------------------|
| LC50/96h | 126 mg/l (Scenedesmus subspicatus) |
| | 344 mg/l (Brachydanio rerio) |
| | 597 mg/l (Danio rerio.) (OECD 203) |
| | 168 mg/l (pimephales promelas) |

· **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:**

| | |
|-----------|--|
| 1760-24-3 | N-(3-(trimethoxysilyl)propyl)ethylenediamine |
|-----------|--|

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· Recommendation

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
Smaller quantities can be disposed of with household waste.

· 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 04 00 | wastes from MFSU of adhesives and sealants (including waterproofing products) |
| 08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09 |

· Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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

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· 14.5 Environmental hazards:· Marine pollutant: No**· 14.6 Special precautions for user**

Not applicable.

· 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

· Transport/Additional information:

Not dangerous according to the above specifications.

· UN "Model Regulation":

Void

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.

· 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.

· REGULATION (EU) 2019/1148· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:· Information about limitation of use: Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 0.0 g/l**· 15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Department issuing SDS: Laboratory· Date of previous version: 10.06.2024

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· 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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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