

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)

BAWAX

Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 1 of 13

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

1.1 Product identification: XANOSIL SP

1.2. Relevant identified uses of the substance or mixture and uses advised against
Foreseen use: Application as a hydrophobing agent on and in mineral building materials
Non-intended use: All other types of application

1.3. Details of the supplier that provides the safety data sheet

Company name: BAWAX GmbH

Street / PO Box: 77 Street 52

Location: 29221 Celle

Phone: 05141/299 50 - 37

Fax: 05141/299 50-34

E-Mail: info@bawax.de

1.4. Emergency call number

Emergency call: Tel. : +49 (0) 178 310 10 43 Availability: 7d / 24 h

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

2.1 Classification according to Regulation (EC) No 1272/2008

Skin irritant 2, H315

Eye damage. 1, H318

2.2. Labeling elements

2.2.1 Labeling according to Regulation (EC) No 1272/2008



Hazard Pictograms:

Signal word Danger

Hazard statements: H315 Causes skin irritation.

H318 Causes serious eye damage.

Safety precautions: Prevention:

P264 Wash skin thoroughly after use.

P280 Wear eye / face protection.

P280 Wear protective gloves.

Reaction:

P305 + P351 + P338 + P310 IN CONTACT WITH THE

EYE: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing.

Immediately

POISONING INSTRUCTIONS / Call a physician.

P332 + P313 Skin irritation: Get medical advice / attention.

P362 + P364 Remove contaminated clothing and wash before reuse.

Hazardous components which must be listed on the label:

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)

Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 2 of 13

Oxirane, 2-methyl, polymer with oxirane, mono (2-propylheptyl) ether

2.3. Other dangers

This substance / mixture does not contain any components in concentrations of 0.1% or higher classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition / information on ingredients

3.1. Substances

Not applicable, as the product is a mixture.

3.2. Mixtures

Chemical characterization: Macroemulsion of a resin and silane

The mixture contains the following hazardous substances and the following substances with a regulation to the permissible maximum workplace concentration:

Hazardous ingredients:

Identification Number CAS / EC:	Substance name	Concentration (M.-%)	Classification according to Commission Regulation (EC)Nr. 1272/2008 (CLP)	Notes
2943-75-1 220-941-2	Triethoxyoctylsilan	>= 20 - <30	Skin irritation. 2 H315	
166736-08-9	Oxiran, 2-Methyl-, Polymer mit Oxiran, Mono (2Propylheptyl) ether	>= 3 - < 5	Ingestion Harmful if swallowed. 4 Eye damage. 1 H 302 H 318	
67-56-1 200-659-6 01-2119433307-44	Methanol	>= 0,1 - < 1	highly flammable 2 Ingestion toxic 3 Skin contact toxic 3 Inhalation toxic 3 Damaged organs 3 H225 H301 H311 H331 H370	

The complete text of all standard formulations and guidelines is given in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

As soon as any health problems are identified or suspected, a doctor should be consulted. This safety data sheet is to be submitted. In the case of unconsciousness, the person concerned must be placed in the stable lateral position, bending the head slightly backwards and ensuring that the airways are free. Do not induce vomiting. If the person is vomiting himself, make sure that the vomit does not enter the respiratory tract. In life-threatening situations, first medical assistance and, if necessary, the implementation of resuscitant measures must be ensured. If breathing is stopped, artificial respiration must be initiated immediately, and cardiac pressure massage should be initiated immediately.

Take off dirty, soaked clothes immediately. Always pay attention to your own safety during first aid. No special personal protective equipment is required for first responders.

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)



Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 3 of 13

breathe in
Remove to fresh air.
If the problems are persistent, consult a doctor.

Skin contact
Wash immediately with soap and plenty of water.
If the problems are persistent, consult a doctor.

Eye contact
After eye contact, remove contact lenses. Immediately flush with plenty of water for at least 15 minutes, even under the eyelids. Call a physician immediately.

Swallow
Rinse mouth with water.
DO NOT induce vomiting.
Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed
For risks, see points 2 and 11

4.3. Indication of any immediate medical attention and special treatment needed
Symptomatic treatment. If a doctor is requested, please submit this safety data sheet.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media
Suitable extinguishing media
Foam, carbon dioxide, extinguishing powder, water spray, water mist.

5.2. Special hazards arising from the mixture
In case of fire, hazardous decomposition products may be generated.
In case of fire, the following can be released: carbon oxides, silicon dioxide

5.3. Instructions for fire fighting
Special protective equipment for fire fighting:
In case of fire, wear self-contained breathing apparatus.

More information:
In case of fire, do not inhale smoke, fire gases or vapors. Fire residues and contaminated fire fighting water must be disposed of in accordance with local regulations.
Material itself does not burn, only after drying by large fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 Non-emergency personnel
Use personal protective equipment. Contaminated surfaces become extremely slippery.

6.1.2 Operational forces
Emergency plans are not required.

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)



Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 4 of 13

6.2. Environmental protection measures

Do not allow product to enter drains, water courses or the ground. Observe local, official regulations.

6.3. Methods and materials for retention and cleaning

Absorb with inert liquid-absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surfaces thoroughly. Dispose of in accordance with local regulations.

6.4. Reference to other sections

See the protective measures in points 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1 Recommendations for protective measures

Advice for safe handling:

Avoid aerosol formation. Provide sufficient air exchange and / or exhaust ventilation in the workrooms.

Information about fire and explosion protection:

No special fire protection measures required.

7.1.2 Instructions for general hygiene measures

Avoid contact with skin, eyes and clothes. Do not breathe vapor / aerosol. Take off dirty, soaked clothes immediately. Observe the usual precautions when handling chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers:

Always keep in containers of the original type. Keep container tightly closed.

Further information on storage conditions:

Protect from frost. Protect from temperatures above + 40 ° C. Stir well before use.

Information about storage in one common storage facility: No special precautions required.

Storage class (TRGS 510): 12, Non-flammable liquids

7.3. Specific end use (s)

Specific use (s): Observe the technical guidelines for the use of this substance / mixture.

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)



Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 5 of 13

SECTION 8: Exposure controls / personal protection equipment

8.1. Parameters to be monitored

Workplace exposure limits

Ingredients	CAS-Nr.	Value type (type of exposure)	Parameters to be monitored	Regulation
Methanol	67-56-1	TWA	200 ppm 260 mg/m ³	2006/15/EC
Further information	Indicates the possibility that larger amounts of the substance are absorbed through the skin, indicative			
Methanol	67-56-1	AGW	200 ppm 270 mg/m ³	DE TRGS 900
Top limit: excess factor (category)	4;(II)			
Further information	Senate Commission on the Testing of Health Hazardous Substances of the DFG (MAK Commission), European Union (An air limit value has been established by the EU): Skin resorptive, A risk of fruit damage must be observed when the workplace limit value and the biological limit (BGW) is not to be feared			

Biological workplace exposure limit

Substance name	CAS-Nr.	Parameters to be monitored	Sampling	Regulation
Methanol	67-56-1	Methanol: 30 mg/l (urine)	Exposure end, or layer end, for long-term exposure: after several previous ones	TRGS 903

Derived exposure level without impairment (DNEL) according to Regulation (EC) No 1907/2006:

Methanol:
Scope: Employees
Routes of exposure: Inhalation
Possible health effects: Long-term - systemic effects
Value: 260 mg / m³
Scope: Employees
Routes of exposure: Inhalation
Possible health effects: acute - systemic effects
Value: 260 mg / m³
Scope: Employees
Routes of exposure: Inhalation
Possible health effects: Long-term - local effects

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)



Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 6 of 13

Value: 260 mg / m³
Scope: Employees
Routes of exposure: Inhalation
Possible health effects: acute - local effects
Value: 260 mg / m³
Scope: Employees
Routes of exposure: Skin contact
Possible health effects: Long-term - systemic effects
Value: 40 mg / kg bw / d
Scope: Employees
Routes of exposure: Skin contact
Possible health effects: acute - systemic effects
Value: 40 mg / kg bw / d
Application: consumer
Routes of exposure: Inhalation
Possible health effects: Long-term - systemic effects
Value: 50 mg / m³
Application: consumer
Routes of exposure: Inhalation
Possible health effects: acute - systemic effects
Value: 50 mg / m³
Application: consumer
Routes of exposure: Inhalation
Possible health effects: Long-term - local effects
Value: 50 mg / m³
Application: consumer
Routes of exposure: Inhalation
Possible health effects: acute - local effects
Value: 50 mg / m³
Application: consumer
Routes of exposure: Skin contact
Possible health effects: Long-term - systemic effects
Value: 8 mg / kg bw / d
Application: consumer
Routes of exposure: Skin contact
Possible health effects: acute - systemic effects
Value: 8 mg / kg bw / d

Estimated non-effect concentration (PNEC) according to Regulation (EC) No 1907/2006:

Methanol:
fresh water
Value: 20.8 mg / l
Sea water
Value: 2.08 mg / l
Water - intermittent release
Value: 1540 mg / l
Sewage treatment plant
Value: 100 mg / l
Fresh water sediment
Value: 77 mg / kg

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)



Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 7 of 13

Meeressiment
Value: 7.7 mg / kg
ground
Value: 3.18 mg / kg

8.2 Exposure controls Technical protective measures

Solids with occupational exposure limits in liquid preparations do not cause exposure to the substance (exposure) at the workplace as they are not in a breathable form. Exposure can occur in the form of aerosols, or when the liquid is dried, the solid remains, possibly in finely divided form. Provide sufficient air exchange and / or exhaust ventilation in the workrooms.

Personal protective equipment

Eye protection: Protective goggles
Material: nitrile rubber
Breakthrough time > 480 min
Glove thickness > 0.35 mm
Protection class 6

Notes The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. The breakthrough times determined in accordance with EN 374 Part III are not carried out under practical conditions. Therefore a maximum wearing time of 50% of the breakthrough time is recommended.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Respiratory protection is required for inadequately ventilated workplaces and for spray processing. Recommended filter type: Combination filter A / P

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid
Color white
Odor: Characteristic
PH-value: 4.8-7.0, concentration: 100 g / l (20 ° C)
Melting Point / Range: No data available
Boiling point / range: No data available
Flash point: Not applicable
Evaporation rate: Not applicable
Upper Explosive Limit: Not applicable
Lower Explosive Limit: Not applicable
Vapor pressure: No data available
Vapor density: Not applicable
Density: about 1 g / cm³ (20 ° C)
Water solubility: miscible
Distribution coefficient n-octanol / water: Not applicable
Auto-ignition temperature: not self-igniting
Viscosity, dynamic: 150 - 300 mPa.s (20 ° C) Brookfield LVT
Oxidizing properties: Not applicable

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)



Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 8 of 13

9.2 Other information

Conductivity: not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

No particular dangers to mention.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known under normal conditions.

10.4 Conditions to avoid

Conditions to avoid: Not applicable

10.5 Incompatible materials

Substances to be avoided: Not applicable

10.6 Hazardous decomposition products

Hazardous decomposition products: No decomposition if used according to specifications.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Product:

Acute oral toxicity: Acute toxicity:> 2,000 mg / kg

Method: Calculation method

Acute inhalation toxicity: Acute toxicity:> 20 mg / l

Exposure time: 4 h

Test atmosphere: steam

Method: Calculation method

Acute dermal toxicity: Acute toxicity:> 2,000 mg / kg

Method: Calculation method

Acute toxicity Ingredients:

Triethoxyoctylsilane:

Acute oral toxicity: LD50 rat:> 5,000 mg / kg

Method: OECD Test Guideline 401

Oxirane, 2-methyl, polymer with oxirane, mono (2-propylheptyl) ether:

Acute oral toxicity: LD50 rat:> 300 - 2,000 mg / kg

Method: OECD Test Guideline 423

Methanol:

Acute oral toxicity: LD50 rat: 5,628 mg / kg

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)



Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 9 of 13

Based on indications in humans Toxic if swallowed.

Acute inhalation toxicity: LC50: 83.8 mg / l Exposure time: 4 h

Test atmosphere: steam

Toxic by inhalation. Based on references to people

Acute dermal toxicity: LD50 rabbit: 15,800 mg / kg

Toxic in contact with skin. Based on references to people

Skin corrosion / irritation Product:

Causes skin irritation.

Skin corrosion / irritation Ingredients:

Triethoxyoctylsilane:

Species: rabbit

Result: Irritates the skin.

Method: OECD Test Guideline 404

Oxirane, 2-methyl, polymer with oxirane, mono (2-propylheptyl) ether:

Species: rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

Serious eye damage / irritation Product:

Causes serious eye damage.

Serious eye damage / eye irritation Ingredients:

Oxirane, 2-methyl, polymer with oxirane, mono (2-propylheptyl) ether:

Species: rabbit

Result: Irreversible damage to the eyes

Method: OECD Test Guideline 405

Respiratory or skin sensitization Product:

No sensitizing effects known.

Respiratory or skin sensitization Ingredients:

Oxirane, 2-methyl, polymer with oxirane, mono (2-propylheptyl) ether:

Test method: maximization test

Species: guinea pig

Result: Does not cause skin sensitization.

Method: OECD Test Guideline 406

Germ cell mutagenicity Product:

Germ cell mutagenicity assessment: Due to available data the classification criteria are not met.

Carcinogenicity Product:

Carcinogenicity assessment: Based on available data the classification criteria are not met.

Reproductive toxicity Product:

Reproductive toxicity assessment: The classification criteria are not fulfilled due to available data.

Specific target organ toxicity in single exposure Product:

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)



Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 10 of 13

Due to the available data, the classification criteria are not fulfilled.

Specific target organ toxicity in case of repeated exposure Product:
Due to the available data, the classification criteria are not fulfilled.

Aspiration toxicity Product:
Due to the available data, the classification criteria are not fulfilled

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish: (fish):> 10 - 100 mg / l

Exposure time: 96 h

Analogue closure

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna) > 10 - 100 mg / l

Exposure time: 48 h Analogue closure

Toxicity to algae: No data are available for the product itself.

Toxicity to bacteria: No data are available for the product itself.

Ingredients:

Oxirane, 2-methyl, polymer with oxirane, mono (2-propylheptyl) ether:

Toxicity to fish: LC50 (Danio rerio (zebrafish)):> 10 - 100 mg / l

Exposure time: 96 h

Method: OECD Test Guideline

Toxicity to daphnia and other aquatic invertebrates: LC50 (Daphnia magna):> 10 - 100 mg / l

Exposure time: 48 h

Toxicity to algae: EC50 (Scenedesmus subspicatus):> 10 - 100 mg / l

Method: OECD Test Guideline 201

Methanol:

Toxicity to fish: LC50 (Lepomis macrochirus (sunfish)): 15.400 mg / l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna):> 1000 mg / l

Exposure time: 48 h

Method: OECD Test Guideline 202

NOEC (Daphnia magna): 10,000 mg / l Exposure time: 48 h

Toxicity to algae: EC50 (Selenastrum capricornutum):> 1,000 mg / l

Exposure time: 96 h

Method: OECD Test Guideline 201

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)



Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 11 of 13

NOEC (Scenedesmus quadricauda (green algae)): 8,000 mg / l Exposure time: 192 h

12.2 Persistence and degradability

Product:

Biodegradability: According to the OECD, the sum of the surfactants present in the product is to be assessed as readily biodegradable.

Physical-chemical elimination: Elimination in a sewage purification plant is carried out by means of biodegradation as well as by abiotic processes such as flocculation and precipitation, sedimentation, adsorption on sewage sludge and mechanical separation.

Ingredients:

Oxirane, 2-methyl, polymer with oxirane, mono (2-propylheptyl) ether:

Biodegradability: Type of test: CO₂ measurement

Result: Easily biodegradable.

Biodegradation: > 60%

Exposure time: 28 d

Method: OECD 301 B (mineralization)

Methanol:

Biodegradability: Type of test: O₂ measurement

Result: Easily biodegradable.

Biodegradation: 76%

Method: OECD 301 D (mineralization)

12.3 Bioaccumulation potential

Product:

Bioaccumulation: No data are available for the product itself.

12.4 Mobility in the ground

Product:

Mobility: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment: This substance / mixture does not contain any components in concentrations of 0.1% or higher classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects Product:

Product:

Adsorb. Org. Bound The product does not contribute to the AOX value of the wastewater.

Halogen (AOX):

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)



Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 12 of 13

Other ecological information: According to our current state of knowledge, the product does not contain heavy metals and compounds of EC Directive 2000/60 / EC.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product: Observe local, official regulations.

Contaminated packaging: Observe local, official regulations.

SECTION 14: Transport information

14.1 UN number

ADR: No dangerous good

IMDG: No dangerous good

IATA: No dangerous good

14.2 UN proper shipping name

ADR: No dangerous good

IMDG: No dangerous good

IATA: No dangerous good

14.3 Transport hazard classifications

ADR: No dangerous good

IMDG: No dangerous good

IATA: No dangerous good

14.4 Packing group

ADR: No dangerous good

IMDG: No dangerous good

Segregation group: -

IATA: No dangerous good

14.5 Environmental hazards

ADR: No dangerous good

IMDG: No dangerous good

IATA: No dangerous good

14.6 Special precautions for user

Notes: See sections 6 - 8

14.7 Transport in bulk according to Annex II of MARPOL Convention 73/78 and the IBC Code

Remarks: Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

Water hazard class: WGK 1 slightly water endangering

Classification according to VwVwS, Annex 4.

Material Safety Data Sheet

According to Regulation (EG) Nr. 1907/2006 (REACH)



Product: XANOSIL SP

Revised on : 01.06.2016
Version: 2.0

Replacement for all previous versions :
01.06.2016

Date of print: 01.06.2016
page 13 of 13

Ingredients per EU This product is not subject to the Detergents Ordinance.
Detergent Regulation EC
648/2004

15.2 Chemical Safety Assessment
not mandatory

SECTION 16: Other information

Full text of H-phrases

H225: Highly flammable liquid and vapor.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H331: Toxic by inhalation.
H370: Causes damage to organs.

Further information

Other Information:

The information contained in this safety data sheet corresponds to the best of our knowledge at the time of the revision. This information is intended to provide guidance on the safe handling, storage, processing, transport and disposal of the product mentioned in this safety data sheet. The details are not transferable to other products. If the product mentioned in this Material Safety Data Sheet is mixed with other materials, mixed or processed or subjected to processing, the data contained in this Material Safety Data Sheet may not be transferred to the new material thus produced unless otherwise expressly stated otherwise.

This safety data sheet contains only safety-related information and does not replace any product information or product specification.