

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

1.1. Product identifier: Boscryl SA50

1.2. Relevant identified uses of the substance or mixture and uses advised against. Relevant identified uses: wetting agent, Coating raw material for industrial applications, additives for inks, varnishes or coatings

1.3. Details of the supplier of the safety data sheet

Supplier: BosTech Polymer LLC.FZ

Address: Office 332, European Business Centre, Dubai Investment Park 1, Dubai, United Arab Emirates

Telephone: +971 54 2943817

E-mail : info@bostechpolymer.com

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

For the classification of the mixture, the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, based on test results, and after expert evaluation. The methodologies used are mentioned in the respective test results.

According to Regulation (EC) No 1272/2008 [CLP]

Skin Corr./Irrit. 1B H314 Causes severe skin burns and eye damage. For the classifications not written out in full in this section, the full text can be found in section 16.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Signal Word: Danger

Hazard Statement: H314 Causes severe skin burns and eye damage.

Precautionary Statements (Prevention):

P280: Wear protective gloves, clothing, and eye or face protection.

P260: Do not breathe dust or mist.

P264: Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. If contact lenses are present and easy to remove, continue rinsing.

P310 Immediately call a POISON CENTER or physician.

P303 + P361 + P353 IF ON SKIN (or hair): Remove or remove all contaminated clothing immediately. Rinse skin with water or shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P363 Wash contaminated clothing before reuse.

Precautionary Statements (Storage): P405 Store locked up.

Precautionary Statements (Disposal): P501 Dispose of contents and container to hazardous or special waste collection point.



+971 54 2943817



info@bostechpolymer.com



<https://bostechpolymerae.com/>

Hazard determining component(s) for labelling: Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-methoxy-, phosphoric acid ... %, orthophosphoric acid ... % 2.3.

Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The product does not contain a substance above legal limits fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

SECTION 3: Composition/Information on Ingredients

3.1. Substances Not applicable

3.2. Mixtures

Chemical nature Contains: phosphoric ester

Regulatory relevant ingredients

Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-methoxy-
Content (W/W): $\geq 50\%$ - $\leq 80\%$ Skin Corr./Irrit. 1B
CAS Number: 70700-21-9 H314

phosphoric acid ... %, orthophosphoric acid ... %
Content (W/W): 1% - $< 10\%$ Met. Corr. 1
CAS Number: 7664-38-2 Acute Tox. 4 (oral)
EC-Number: 231-633-2 Skin Corr./Irrit. 1B
REACH registration number: 01- Eye Dam./Irrit. 1
2119485924-24 H290, H302, H314
INDEX-Number: 015-011-00-6

Specific concentration limit:

Skin Corr./Irrit. 1B: $\geq 25\%$
Eye Dam./Irrit. 2: 10% - $< 25\%$
Skin Corr./Irrit. 2: 10% - $< 25\%$

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.



+971 54 2943817



info@bostechpolymer.com



<https://bostechpolymerae.com/>

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Immediately remove contaminated clothing. If the patient is likely to become unconscious, place and transport in a stable sideways position (recovery position). First aid personnel should pay attention to their own safety.

If inhaled: If difficulties occur after inhaling vapour or aerosol, move the product to fresh air and seek medical attention.

On skin contact: Immediately wash thoroughly with plenty of water, apply sterile dressings, and consult a skin specialist.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion: Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting unless told to by a poison control center or doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and/or effects are not known so far

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media Suitable extinguishing media: water spray, dry powder, foam

5.2. Special hazards arising from the substance or mixture

Endangering substances: harmful vapours

Advice: Watch for the evolution of fumes or fog. The substances or groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment: Wear a self-contained breathing apparatus.
Further information: The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.



+971 54 2943817



info@bostechpolymer.com



<https://bostechpolymerae.com/>

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment, and emergency procedures: Use personal protective clothing. Breathing protection is required.

6.2. Environmental precautions: Contain contaminated water or firefighting water. Do not discharge into drains, surface waters, or groundwater.

6.3. Methods and materials for containment and cleaning up: For large amounts, Pump off the product. For residues, pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections: Sections 8 and 13 provide information regarding exposure controls/personal protection and disposal considerations.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling: No special measures are necessary, provided the product is used correctly. Protection against fire and explosion: Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities: Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Storage class according to TRGS 510 (originally VCI, Germany): (8A) Combustible corrosive substances

7.3. Specific end use(s): The advice mentioned in section 7 is to be observed for the relevant identified use(s) listed in Section 1.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits The surveillance of the workplace by exposure measurements may be necessary, in order to prove the efficiency of safety measures, for example ventilation or the need of respiratory protection. Since this requires a specific competency, only accredited laboratories should be contracted. Regarding suitable methods to assess inhalation exposure, the European Standards EN 482, 689 and 14042 are to be considered. In addition, the TRGS 402 has to be observed in Germany. 7664-38-2: phosphoric acid ... %, orthophosphoric acid ... % TWA value 1 mg/m³ (OEL (EU)) indicative STEL value 2 mg/m³ (OEL (EU)) indicative OEL 2 mg/m³ (TRGS 900 (DE)), Inhalable fraction Ceiling limit value/factor: 2 If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7) Short Term Exposure Classification: (TRGS 900 (DE)), Inhalable fraction Category I: Substances for which the localized effect has an assigned exposure limit or for substances with a sensitizing effect in respiratory passages



+971 54 2943817



info@bostechpolymer.com



<https://bostechpolymerae.com/>

8.2. Exposure controls

Personal protective equipment

Respiratory protection: Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g., EN 143 or 149, Type P2 or FFP2)

Hand protection: Chemical resistant protective gloves (EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): nitrile rubber (NBR) - 0.4 mm coating thickness Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g., temperature), it must be considered that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. The manufacturer's directions for use should be observed because of the great diversity of type.

Eye protection: Safety glasses with side shields (frame goggles) (e.g., EN 166)

Body protection: Body protection must be chosen based on level of activity and exposure., acid- resp. Lye-proof apron, e.g. of rubber (f.e. according to EN 14605), protection boots, f.e. of rubber (e.g. according to EN 20346), chemical-protection suit (f.e. according to EN 14605)

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter: liquid

Form: liquid

Colour: brownish

Odour: characteristic

Odour threshold: not determined

Melting point: not determined

Boiling point: approx. 213 °C (1.013 hPa)

Flammability: not determined

Lower explosion limit: not determined

Upper explosion limit: not determined

Flash point: 107 °C

Auto-ignition temperature: not determined

pH value: approx. 1,3 (23 °C) (as aqueous solution) (other)

Viscosity, dynamic: 1.200 - 1.600 mPa.s (23 °C) (internal method)



+971 54 2943817



info@bostechpolymer.com



<https://bostechpolymerae.com/>

Thixotropy: not thixotropic
Solubility in water: slightly soluble
Partitioning coefficient n-octanol/water (log Kow): not applicable for mixtures
Vapour pressure: 0,038 hPa (20 °C)
Relative density: 1,25 (20 °C, 1.013 hPa)
Density: 1,25 g/cm³ (20 °C, 1.013 hPa)
Relative vapour density (air): not determined

Particle characteristics

Particle size distribution: The substance/product is marketed or used in a non solid or granular form. -

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: not explosive

Oxidizing properties

Fire-promoting properties: not fire-propagating Self-heating substances and mixtures

Self-heating ability: Study scientifically not justified.

Corrosion to metals: No corrosive effect on metal.

Other safety characteristics

Hygroscopy: hygroscopic

Surface tension: hygroscopic

Solids content: approx. 100 %

SAPT-Temperature: Product does not fulfil criteria for polymerizing substances according to transport regulations.

Evaporation rate: not determined

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

10.2. Chemical stability:

The product is chemically stable.

10.3. Possibility of hazardous reactions:

No hazardous reactions when stored and handled according to instructions.



10.4. Conditions to avoid: See SDS section 7 - Handling and storage.

10.5. Incompatible materials Substances to avoid: strong oxidizing agents, strong bases, strong acids

10.6. Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11: Toxicological Information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Experimental/calculated data:

LD50 rat (oral): 2.000 - 5.000 mg/kg The product has not been tested. The statement has been derived from the properties of the individual components.

LC50 rat (by inhalation): 4 h not determined

LD50 rat (dermal): > 5.000 mg/kg (other) The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation

Experimental/calculated data: Skin corrosion/irritation

rabbit: Corrosive. The product has not been tested. The statement has been derived from the properties of the individual components.

Serious eye damage/irritation

Rabbit: irreversible damage. The product has not been tested. The statement has been derived from the properties of the individual components

Respiratory/Skin sensitization

Experimental/calculated data:

other guinea pig: Non-sensitizing. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Germ cell mutagenicity

Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.

Carcinogenicity

Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction



+971 54 2943817



info@bostechpolymer.com



<https://bostechpolymerae.com/>

Developmental toxicity

Assessment of teratogenicity: Based on the ingredients, there is no suspicion of a teratogenic effect.

Specific target organ toxicity (single exposure)

Assessment of STOT single: Causes temporary irritation of the respiratory tract.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity: The information available on the product provides no indication of toxicity on target organs after repeated exposure

Aspiration hazard

No aspiration hazard is expected. Interactive effects No data available.

11.2. Information on other hazards**Endocrine-disrupting properties**

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological Information**12.1. Toxicity**

Toxicity to fish: LC50 (96 h) > 100 mg/l, Fish The product will cause changes in the pH value of the test system. The result refers to a neutralized sample. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic invertebrates: LC50 (48 h) > 100 mg/l, daphnia The product will cause changes in the pH value of the test system. The result refers to a neutralized sample. The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic plants: EC50 (72 h) > 100 mg/l, algae The product will cause changes in the pH value of the test system. The result refers to a neutralized sample. The product has not been tested. The statement has been derived from the properties of the individual components.

Microorganisms/Effect on activated sludge: EC50 (0,5 h), bacteria



+971 54 2943817



info@bostechpolymer.com



<https://bostechpolymerae.com/>

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product will cause changes in the pH value of the test system. The result refers to a neutralized sample. The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic toxicity to fish: No data available.

Chronic toxicity to aquatic invertebrates: No data available.

Assessment of terrestrial toxicity: No data available concerning terrestrial toxicity.

12.2. Persistence and degradability

Assessment of biodegradation and elimination (H2O): The polymer component of the product is poorly biodegradable.

12.3. Bioaccumulative potential

Assessment of bioaccumulation potential: The product has not been tested.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: No data available.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Endocrine-disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/60

12.7. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.8. Additional information

Add. remarks environm. fate & pathway: Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.



+971 54 2943817



info@bostechpolymer.com



<https://bostechpolymerae.com/>

SECTION 13: Disposal Considerations

13.1. Waste treatment methods:

Must be disposed of or incinerated following local regulations.

Contaminated packaging: Uncontaminated packaging can be reused. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14: Transport Information Land Transport

ADR

UN number or ID number: UN3265

UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (PHOSPHONO-METHOXY-POLYETHYLENE GLYCOL)

Transport hazard class(es): 8

Packing group: II

Environmental hazards: no

Special precautions for user: Tunnel code: E

RID

UN number or ID number: UN3265

UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (PHOSPHONO-METHOXY-POLYETHYLENE GLYCOL)

Transport hazard class(es): 8

Packing group: II

Environmental hazards: no

Special precautions for user: None known

Inland waterway transport

ADN

UN number or ID number: UN3265

UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (PHOSPHONO-METHOXY-POLYETHYLENE GLYCOL)

Transport hazard class(es): 8

Packing group: II

Environmental hazards: no

Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 3265

UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (PHOSPHONO-METHOXY-POLYETHYLENE GLYCOL)

Transport hazard class(es): 8

Packing group: II

Environmental hazards: no

Marine pollutant: NO

Special precautions for user: EmS: F-A; S-B



+971 54 2943817



info@bostechpolymer.com



<https://bostechpolymerae.com/>

**Air transport
IATA/ICAO**

UN number or ID number: UN 3265

UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(PHOSPHONOMETHOXY-POLYETHYLENE GLYCOL)

Transport hazard class(es): 8

Packing group: II

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for user: None known

14.1. UN number or ID number

See corresponding entries for “UN number or ID number” for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for “UN proper shipping name” for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for “Transport hazard class(es)” for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for “Packing group” for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for “Environmental hazards” for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for “Special precautions for user” for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3, 75

Hazardous Incident Ordinance (Germany):

Listed in above regulation: no

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU): Listed in above regulation: no



+971 54 2943817



info@bostechpolymer.com



<https://bostechpolymerae.com/>

Water hazard class (§8/§10 AwSV (Self-classification of the mixture according to calculation method)): (1) Weakly water polluting. Law on the Protection of Working Youth German Regulation TA Luft (Technical Instruction on Air Quality Control, i.e. first Directive to the Federal Immission Control Ordinance) The specifications of the Technical Rule for Hazardous Substances (TRGS) 401 must be observed (TRGS 401: Risks resulting from skin contact - identification, assessment, measures).

15.2. Chemical Safety Assessment

Assessment of safe use has been performed for the mixture, and the result is documented in section 7 and 8 of the SDS

