SAFETY DATA SHEET

Sørbø Flexifug

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

1.1. Product identifier

Trade name

Sørbø Flexifug

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Sealing and bonding

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Sørbø Industribeslag AS
Bjødnabeen 12
NO-4031 Stavanger
Norway

E-mail

-

Revision

09/10/2024

SDS Version

1.0

1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)
Scotland - Dial 112 to reach NHS 24 (24 hour service)
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)

Not applicable.

Signal word

Not applicable.

Hazard statement(s)

Harmful to aquatic life with long lasting effects. (H412)

Precautionary statement(s)

General

-

Prevention

Avoid release to the environment. (P273)

Response

-

Storage

-

Disposal

Dispose of contents/container in accordance with local regulation
(P501)

Hazardous substances

None known.

Additional labelling

EUH208, Contains Trimethoxyvinylsilane. May produce an allergic reaction.

2.3. Other hazards

The product hydrolyses under formation of methanol (CAS-Nr. 67-56-1). Methanol is classified concerning both physical and
health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on
the specific conditions.

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Trimethoxyvinylsilane	CAS No.: 2768-02-7 EC No.: 220-449-8 UK-REACH: Index No.: 014-049-00-0	<1%	Flam. Liq. 3, H226 Skin Sens. 1B, H317 Acute Tox. 4, H332	
Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]	CAS No.: 36443-68-2 EC No.: 253-039-2 UK-REACH: Index No.:	<0.25%	Aquatic Chronic 1, H410 (M=10)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

nano: nanoform

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

IF ON SKIN: Wash with plenty of water and soap.
Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.
In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.
Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

Treat symptomatically.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Carbon oxides (CO / CO2)
Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material
Always store in containers of the same material as the original container.

Storage conditions
Dry, cool and well ventilated

Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)
This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
calcium carbonate (Precipitated, PCC) (Nano)
Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

magnesium carbonate
Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

methanol (released in small quantities during vulcanisation)
Long term exposure limit (8 hours) (ppm): 200
Long term exposure limit (8 hours) (mg/m³): 266
Short term exposure limit (15 minutes) (ppm): 250
Short term exposure limit (15 minutes) (mg/m³): 333
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL
Trimethoxyvinylsilane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	630 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	910 µg/kg bw/day
Long term – Systemic effects - General population	Inhalation	6.8 mg/m³
Long term – Systemic effects - Workers	Inhalation	27.6 mg/m³
Short term – Systemic effects - General population	Inhalation	54.4 mg/m³
Short term – Systemic effects - Workers	Inhalation	73.6 mg/m³
Long term – Systemic effects - General population	Oral	630 µg/kg bw/day

PNEC
Trimethoxyvinylsilane

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		400 µg/L
Freshwater sediment		1.5 mg/kg
Intermittent release (freshwater)		1.21 mg/L
Marine water		40 µg/L
Marine water sediment		150 µg/kg
Soil		60 µg/kg

8.2. Exposure controls
Apply general control to prevent unnecessary exposure

General recommendations
Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios
There are no exposure scenarios implemented for this product.

Exposure limits
Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures
Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures
In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure
Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally
Use only UKCA marked protective equipment.

Respiratory Equipment

Work situation	Type	Class	Colour	Standards	
If used in small and very badly ventilated rooms (not relevant if the room is well ventilated)	AX		Brown	EN14387	

Skin protection
No specific requirements.

Hand protection

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
	Nitrile	0.1	> 480	EN374-2, EN388	
When applying the sealant with a caulking gun and when finishing with a joint nail, work can be carried out without gloves if skin contact is avoided.					

Eye protection
No specific requirements.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Paste

Colour
According to specification

Odour / Odour threshold
Faint

pH
No relevant or available data due to the nature of the product.

Density (g/cm^3)
1,41-1,45 (20 °C)

Kinematic viscosity
No relevant or available data due to the nature of the product.

Particle characteristics
No relevant or available data due to the nature of the product.

Phase changes

Melting point/Freezing point (°C)
No relevant or available data due to the nature of the product.

Softening point/range (°C)

No data available.

Boiling point (°C)

No relevant or available data due to the nature of the product.

Vapour pressure

No relevant or available data due to the nature of the product.

Relative vapour density

No relevant or available data due to the nature of the product.

Decomposition temperature (°C)

No relevant or available data due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)

No relevant or available data due to the nature of the product.

Flammability (°C)

No relevant or available data due to the nature of the product.

Auto-ignition temperature (°C)

No relevant or available data due to the nature of the product.

Lower and upper explosion limit (% v/v)

No relevant or available data due to the nature of the product.

Solubility

Solubility in water

Insoluble

n-octanol/water coefficient (LogKow)

No relevant or available data due to the nature of the product.

Solubility in fat (g/L)

No relevant or available data due to the nature of the product.

9.2. Other information

Other physical and chemical parameters

No data available.

Oxidizing properties

No relevant or available data due to the nature of the product.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: Toxicological information

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

Acute toxicity

Product/substance	Trimethoxyvinylsilane
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	7100 mg/kg ·

Product/substance	Trimethoxyvinylsilane
Species:	Rabbit

Route of exposure:	Dermal
Test:	LD50
Result:	3200 mg/kg ·

Product/substance	Trimethoxyvinylsilane
Species:	Rat
Route of exposure:	Inhalation
Test:	LD50
Result:	16,8 mg/l/4h ·

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>2000 mg/kg ·

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg ·

Product/substance	2-n-butyl-benzo[d]isothiazol-3-one
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>2000 mg/kg ·

Product/substance	2-n-butyl-benzo[d]isothiazol-3-one
Species:	Rat
Route of exposure:	Dermal
Test:	LC50
Result:	>2000 mg/kg ·

Skin corrosion/irritation

Product/substance	Trimethoxyvinylsilane
Species:	Rabbit
Duration:	96 hours
Result:	No adverse effect observed (Not irritating)

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Test method:	OECD 404
Species:	Rabbit
Duration:	No data available.
Result:	No adverse effect observed (Not irritating)

Serious eye damage/irritation

Product/substance	Trimethoxyvinylsilane
Species:	Rabbit
Duration:	No data available.
Result:	Adverse effect observed (Irritating)

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Test method:	OECD 404
Species:	Rabbit
Duration:	No data available.
Result:	No adverse effect observed (Not irritating)

Respiratory sensitisation

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Species:	Guinea pig
Description:	No adverse effect observed
Result:	No adverse effect observed (not sensitising)

Skin sensitisation

Product/substance	Trimethoxyvinylsilane
Test method:	OECD 406
Species:	Guinea pig
Result:	No adverse effect observed (not sensitising)
Other information:	Test system: Maximizing test

Product/substance	Trimethoxyvinylsilane
Test method:	OECD 406
Species:	Guinea pig
Result:	No adverse effect observed (not sensitising)
Other information:	Test system: Buehler Test

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Species:	Guinea pig
Description:	No adverse effect observed
Result:	No adverse effect observed (not sensitising)

Germ cell mutagenicity

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Description:	No adverse effect observed
Conclusion:	No adverse effect observed

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

Long term effects

None known.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Trimethoxyvinylsilane
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	191 mg/l ·

Product/substance	Trimethoxyvinylsilane
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	169 mg/l ·

Product/substance	Trimethoxyvinylsilane
Species:	Daphnia
Duration:	21 days
Test:	NOEC
Result:	25 mg/l ·

Product/substance	Trimethoxyvinylsilane
Species:	Algae
Duration:	72 hours
Test:	NOEC
Result:	25 mg/l ·

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	43 mg/l ·

Product/substance	2-n-butyl-benzo[d]isothiazol-3-one
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	0,15 ·

Product/substance	2-n-butyl-benzo[d]isothiazol-3-one
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	0,093 ·

Product/substance	2-n-butyl-benzo[d]isothiazol-3-one
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	0,45 ·

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Product/substance	Trimethoxyvinylsilane
Conclusion:	Not biodegradable

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Conclusion:	Not biodegradable

Product/substance	2-n-butyl-benzo[d]isothiazol-3-one
Conclusion:	Not biodegradable

12.3. Bioaccumulative potential

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Conclusion:	No potential for bioaccumulation

Product/substance	2-n-butyl-benzo[d]isothiazol-3-one
LogKow:	2,8600
Conclusion:	No potential for bioaccumulation

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

No special.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

methanol (released in small quantities during vulcanisation)

REACH, Annex XVII

Trimethoxyvinylsilane is subject to UK-REACH restrictions (entry 40).

Additional information

Not applicable.

Sources

Control of Major Accident Hazards (COMAH) Regulations 2015.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.
H317, May cause an allergic skin reaction.
H332, Harmful if inhaled.
H410, Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

Product Safety Department

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en