

Material Safety Data Sheet

SDS date: 07-06-2017

SDS version: 1.0

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

1.1. Product Identifier

Trade Name: Akameric 1010

Product- no.: -

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

Recommended uses: Sealing agent.

1.3. Details of the supplier of the safety data sheet

Company and address

A-Trading Fugekemi A/S

Bøgildsmindevej 5

DK-9400 Nørresundby

Contact person and E-mail:

John Asp (mail@fugekemi.dk)

The Safety data sheet is completed and validated by:

mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: DH

1.4. Emergency telephone number

Use your national or local emergency number - See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP (1272/2008): EUH208.

See full text of H-phrases in section 16.

2.2. Label elements

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Signal word:

-

Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine and reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. (EUH208)

2.3. Other hazards

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Additional labelling:

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Additional warnings:

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SECTION 3: Composition/information on ingredients

3.1./3.2. Substances/Mixtures

Substance	EU-Index no./ REACH-reg.-no.	Cas / EINECS no.	CLP-classification	w/w%	Note
Di-"isononyl" phthalate	- / 01-2119430798- 28-xxxx	28553-12-0/ 249-079-5	-	10-30	1
Trimethoxyvinylsilane	- / 01-2119513215- 52-xxxx	2768-02-7/ 220-449-8	Flam. Liq. 3;H226, Acute Tox. 4;H332	1-5	-
N-(3-(Trimethoxysilyl)- propyl)ethylenediamine	-	1760-24-3/ 217-164-6	Skin Sens. 1;H317, Eye Dam. 1;H318	<1	-
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	-	1065336-91-5/ 915-687-0	Skin Sens. 1A;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410 - M=1	<0,1	-

1 = The substance has a national exposure limit.

See full text of H-phrases in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. Keep victim under observation. Seek medical advice in case of discomfort.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of discomfort.

Skin contact: Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of discomfort.

Eye contact: Flush with water (preferably using eye wash equipment) until irritation subsides. Remove contact lenses. Seek medical advice if symptoms persist.

Additional information: When obtaining medical advice, show the safety data sheet or label.
Symptoms: See section 11.

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

May cause slight irritation to the skin and eyes.

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

When obtaining medical advice, show the safety data sheet or label.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Surrounding fire: Extinguish with powder, foam or carbon dioxide. Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

The product is not directly flammable. Avoid inhalation of vapour and fumes – seek fresh air. Product decomposes in fire conditions and toxic gases such as CO_x may be released. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3. Advice for firefighters

If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8 for type of protective equipment. Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not discharge into drains - See section 12.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. See section 13 for instructions on disposal.

6.4. Reference to other sections

See above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

See section 8 for information about precautions for use and personal protective equipment. Use the product under well-ventilated conditions. Running water and eye wash equipment should be available.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits according to EH40/2005 Workplace exposure limits (Second edition, 2011):

Substance	Long-term exposure limit	Short-term exposure limit	Note
Di-"isononyl" phthalate	5 mg/m ³	-	-

DNEL - Di-"isononyl" phthalate:

Dermal	Long Term	Systemic effects	Workers	366 mg/kg bw/day
Inhalation	Long Term	Systemic effects	Workers	51.72 mg/m ³
Oral	Long Term	Systemic effects	General population	4.4 mg/kg bw/day
Dermal	Long Term	Systemic effects	General population	220 mg/kg bw/day
Inhalation	Long Term	Systemic effects	General population	15.3 mg/m ³

DNEL - Trimethoxyvinylsilane:

Dermal	Short term	Systemic effects	Workers	200 µg/kg bw/day
Inhalation	Short term	Systemic effects	Workers	2.6 mg/m ³
Dermal	Long Term	Systemic effects	Workers	200 µg/kg bw/day
Inhalation	Long Term	Systemic effects	Workers	2.6 mg/m ³
Dermal	Short term	Systemic effects	General population	100 µg/kg bw/day
Inhalation	Short term	Systemic effects	General population	700 µg/m ³
Oral	Long Term	Systemic effects	General population	100 µg/kg bw/day
Dermal	Long Term	Systemic effects	General population	100 µg/kg bw/day
Inhalation	Long Term	Systemic effects	General population	700 µg/m ³

DNEL - N-(3-(Trimethoxysilyl)-propyl)ethylenediamine:

Dermal	Long Term	Systemic effects	Workers	5 mg/kg bw/day
Dermal	Short term	Systemic effects	General population	17 mg/kg bw/day

PNEC - Di-"isononyl" phthalate:

Soil	-			30 mg/kg soil dw
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According to EU regulation 1907/2006 (REACH)

PNEC - Trimethoxyvinylsilane:

Water	Fresh	0.360 mg/L
Water	Marine	0.036 mg/L
Water	Intermittent releases	2.4 mg/L
Soil	-	0.055 mg/kg soil dw

PNEC - N-(3-(Trimethoxysilyl)-propyl)ethylenediamine:

Water	Fresh	62 µg/L
Water	Marine	6.2 µg/L
Water	Intermittent releases	620 µg/L
Soil	-	8.5 µg/kg soil dw

8.2. Exposure controls

There are no exposure scenarios for this product.

Appropriate engineering controls:

Wear the personal protective equipment specified below. Wash hands before breaks, before using restroom facilities, and at the end of the work. Do not eat, drink or smoke when using this product.

Personal protective equipment:



Breathing equipment:	Not required.
Hand protection:	Wear protective gloves made of nitrile rubber.
Eye protection:	Not required.
Body and skin protection:	Not required.

Environmental exposure controls:

Make sure that when using the product damming material is available in immediate vicinity. If possible use spillage tray during work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Multiple colours paste
Odour:	Characteristic
Odour threshold:	-
pH:	-
Melting point/ Freezing Point (°C):	-
Initial boiling point and boiling range (°C):	> 34
Flash point (°C):	> 100
Evaporation rate:	-
Flammability (solid, gas)	420 °C
Upper / lower flammability or explosion limits (vol-%):	-
Vapour pressure (mbar, 25 °C):	-
Vapour density (air=1)	-
Relative density (g/ml):	1,43 g/cm ³ , 20 °C
Solubility(ies):	Not soluble with water
Partition coefficient: n-octanol/water:	-
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
Viscosity (mPas, 25 °C):	-
Explosive properties:	-
Oxidising properties:	-

9.2. Other information

VOC (g/l):	37,9
VOC (%):	2,65

SECTION 10: Stability and reactivity

10.1. Reactivity

Non-reactive.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and toxic gases may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance	Route of exposure	Species	Test	Result
Di-"isononyl" phthalate	Oral	Rat	LD50	> 10000 mg/kg bw
Di-"isononyl" phthalate	Inhalation	Rat	LC50/4h	> 4.4 mg/L air
Di-"isononyl" phthalate	Dermal	Rabbit	LD50	> 3160 mg/kg bw
Trimethoxyvinylsilane	Oral	Rat	LD50	7.34 - 7.46 mL/kg bw
Trimethoxyvinylsilane	Inhalation	Rat	LC50 / 4 h	2773 ppm
Trimethoxyvinylsilane	Dermal	Rabbit	LD50	3.36 - 4 mL/kg bw
N-(3-(Trimethoxysilyl)-propyl)ethylenediamine	Oral	Rat	LD50	2574 mg/kg bw
N-(3-(Trimethoxysilyl)-propyl)ethylenediamine	Inhalation	Rat	LC50 / 4 h	1.49 - 2.44 mg/L air
N-(3-(Trimethoxysilyl)-propyl)ethylenediamine	Dermal	Rabbit	LD50	2000 mg/kg bw

Symptoms:

Inhalation: The product does not release hazardous vapours.

Ingestion: Ingestion may cause discomfort.

Skin contact: May cause slight irritation.

Eye contact: May cause eye irritation.

Long term effects:

Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine and reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
Di-"isononyl" phthalate	96 h	Fish	LC50	> 102 mg/L
Di-"isononyl" phthalate	48 h	Daphnia	EC50	> 74 mg/L
Di-"isononyl" phthalate	72 h	Algae	EC50	> 88 mg/L
Trimethoxyvinylsilane	96 h	Fish	LC50	191 mg/L
Trimethoxyvinylsilane	48 h	Daphnia	EC50	168.7 mg/L
Trimethoxyvinylsilane	72 h	Algae	EC50	89 mg/L
N-(3-(Trimethoxysilyl)-propyl)ethylenediamine	96 h	Fish	LC50	597 mg/L
N-(3-(Trimethoxysilyl)-propyl)ethylenediamine	48 h	Daphnia	EC50	81 mg/L
N-(3-(Trimethoxysilyl)-propyl)ethylenediamine	72 h	Algae	EC50	5.5 - 8.8 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Di-"isononyl" phthalate	Yes	OECD Guideline 301 F	70.5 % after 28 days
Trimethoxyvinylsilane	No	OECD Guideline 301 F	51% after 28 days
N-(3-(Trimethoxysilyl)-propyl)ethylenediamine	No	EU Method C.4-A	39% after 28 days

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
Di-"isononyl" phthalate	No	8.8 - 9.7	-
N-(3-(Trimethoxysilyl)-propyl)ethylenediamine	No	-4 - -0.3	-

12.4. Mobility in soil

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12.5. Results of PBT and vPvB assessment

The mixture does not meet the criteria for PBT or vPvB.

12.6. Other adverse effects

None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contact the local authorities.

EWC Code

08 04 09

Specific labelling

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Contaminated packaging:

Uncleansed packaging is to be disposed of via the local waste-removal scheme.

SECTION 14: Transport information

The product is not covered by the rules for transport of dangerous goods by road and sea according to ADR and IMDG.

14.1 -14.4.

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14.5. Environmental hazards

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14.6. Special precautions for user

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

Not relevant.

SECTION 15: Regulatory information

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

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Restrictions for application:

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Demands for specific education:

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Additional labelling:

Safety data sheet available on request. (EUH210)

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: Other information

Other information:**Sources:**

EC regulation 1907/2006 (REACH).

Directive 2000/532/EC.

EC Regulation 1272/2008 (CLP).

EH40/2005 WELs (United Kingdom (UK), 8/2007).

Full text of H-phrases as mentioned in section 2+3:

H226 - Flammable liquid and vapour.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H332 - Harmful if inhaled.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

EUH208 - Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine and reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

Other

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Minor changes have been made in following sections:

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This material safety data sheet replaces version:

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