

Material Safety Data Sheet

Completed 07-06-2017
Revision: (date) 03-11-2022
SDS version 1.1

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

1.1. Product Identifier

Trade Name: Akameric 1020
Product- no.: -

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

Recommended uses:

Sealing agent.

Uses advised against:

This product must not be used for purposes other than those recommended without first seeking the advice of the supplier.

1.3. Details of the supplier of the safety data sheet

Company and address:

A-Trading Fugekemi A/S
Bøgildsmindevej 5
9400 Nørresundby

Contact person and E-mail:

Lars Asp, mail@fugekemi.dk

The Safety data sheet is completed and validated by:

Mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: KN

1.4. Emergency telephone number

NHS: 111

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

The product is not subject to labelling under CLP Regulation No. 1272/2008.

2.2. Label elements

-

Signal word:

-

Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine, N-(3-(trimethoxysilyl)-propyl)ethylenediamine, dioctyltinbis(acetylacetonate) 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

-

Additional labelling:

-

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-no.	EINECS-no.	CLP-classification	Wt/Wt %	Note
Diisononyl phthalat	- / 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)-ethyldiamine	- / -	1760-24-3	217-164-6	Skin Sens. 1;H317, Eye Dam. 1;H318	<1	-
N-[3-(Dimethoxymethylsilyl)propyl]ethyldiamine	- / -	31024-35-8	250-434-1	Skin Sens. 1;H317, Eye Dam. 1;H318	<1	-
Diocetyltribis(acetylate tonate)	- / -	54068-28-9	483-270-6	Acute Tox. 4;H302+H312, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit.	<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, M=1, 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:

In case of discomfort: Seek fresh air.

Seek medical advice in case of persistent 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:

Wash the skin thoroughly with water and continue washing for a long time.

If skin irritation or rash occurs: Get medical advice/attention.

Eye contact:

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

Additional information:

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

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

Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Surrounding fire:

Extinguish with powder, foam, carbon dioxide or water mist.

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.

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.

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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

Avoid unnecessary release to the environment.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers.
Wipe up minor spills with a cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

See section 8 for information about precautions for use and personal protective equipment.

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 application section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits according to EH40/2005 Workplace exposure limits (Fourth Edition 2020):

Substance	Long-term exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Note
Diisononylphthalat	5 mg/m ³	-	-
DNEL/PNEC-values:			
DNEL Diisononyl phthalat			
	Workers		Consumers
Inhalation - Chronic Systemic	51,72 mg/m ³		15,3 mg/m ³
Dermal - Chronic Systemic	366 mg/kg bw/day		220 mg/kg bw/day
Oral - Chronic Systemic	-		4,4 mg/kg bw/day
DNEL Trimethoxyvinylsilane			
	Workers		Consumers
Inhalation - Chronic Systemic	27,6 mg/m ³		18,9 mg/m ³
Dermal - Chronic Systemic	3,9 mg/kg bw/day		7,8 mg/kg bw/day
Oral - Chronic Systemic	-		0,3 mg/kg bw/day
Oral - Acute Systemic	-		0,3 mg/kg bw/day
DNEL Dioctyltinbis(acetylacetonate)			
	Workers		Consumers
Inhalation - Chronic Systemic	84 mg/m ³		-
Inhalation - Acute Systemic	84 mg/m ³		-
Inhalation - Chronic Local	0,091 mg/m ³		-
Inhalation - Acute Local	0,091 mg/m ³		-
Dermal - Chronic Systemic	0,07 mg/kg bw/day		-
DNEL Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate			
	Workers		Consumers
Inhalation - Chronic Systemic	1,27 mg/m ³		0,31 mg/m ³
Dermal - Chronic Systemic	1,8 mg/kg bw/day		0,9 mg/kg bw/day
Oral - Chronic Systemic	-		0,18 mg/kg bw/day
Oral - Acute Systemic	-		0,18 mg/kg bw/day

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PNEC Diisononyl phthalat

Soil 30 mg/kg soil dw

PNEC N-(3-(Trimethoxysilyl)propyl)-ethylendiamine

Fresh water 0,062 mg/L
Intermittent releases (Fresh water) 0,62 mg/L
Marine water 0,006 mg/L
Soil 0,009 mg/kg soil dw

PNEC Dioctyltinbis(acetylacetonate)

Fresh water 0,026 mg/L
Intermittent releases (Fresh water) 0,26 mg/L
Marine water 0,003 mg/L
Soil 0,016 mg/kg soil dw

PNEC Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Fresh water 0,002 mg/L
Intermittent releases (Fresh water) 0,009 mg/L
Soil 0,21 mg/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 after use.

Personal protective equipment:



Respiratory protection:

Not required.

Hand protection:

Recommended:
Wear protective gloves made of nitrile rubber.
Penetration time: > 480 min.

Eye/face protection:

Generally not required.

Skin protection:

Not required.

Environmental exposure controls:

Ensure compliance with local regulations for emissions.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Paste
Colour:	Different
Odour:	Characteristic
Melting point/ Freezing Point (°C):	-
Boiling point or initial boiling point and boiling range (°C):	>34
Flammability:	420 °C
Lower and upper explosion limit (vol-%):	-
Flash point (°C):	>100
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
pH:	-
Kinematic viscosity (mm ² /s):	-
Solubility:	Not soluble in water
Partition coefficient n-octanol/water (log value)	-
Vapour pressure:	-
Density and/or relative density:	1,41 g/cm ³ , 20 °C
Relative vapour density:	-
Particle characteristics:	-

9.2. Other information

VOC (Volatile organic compounds):	2,55 %
	36,0 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No data.

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

No special precautions regarding contact with other materials at the recommended storage conditions.

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SECTION 11: Toxicological information

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

Acute toxicity:

Based on the existing data, the classification is not met.

Substance	exposure	Species	Test	Result
Diisononyl phthalat	Oral	Rat	LD50	>10000mg/kg bw
Diisononyl phthalat	Inhalation	Rat	LC50/ 4 Hours	>4,4mg/L air
Trimethoxyvinylsilane	Oral	Rat	LD50	7,34 - 7,46 mL/kg bw
Trimethoxyvinylsilane	Inhalation	Rat	LC50/ 4 Hours	2773 ppm
Trimethoxyvinylsilane	Dermal	Rabbit	LD50	3,36 - 4 mL/kg bw
N-(3-(Trimethoxysilyl)propyl)-ethylenediamine	Oral	Rat	LD50	1897 mg/kg bw
N-(3-(Trimethoxysilyl)propyl)-ethylenediamine	Inhalation	Rat	LC50/ 4 Hours	> 1,49 - < 2,44 mg/L air (analytical)
N-(3-(Trimethoxysilyl)propyl)-ethylenediamine	Dermal	Rabbit	LD50	> 2000 mg/kg bw
Diocetylbinbis(acetylacetonate)	Oral	Rat	LD50	2500 mg/kg bw
Diocetylbinbis(acetylacetonate)	Inhalation	Rat	LC50/ 4 Hours	1224 ppm
Diocetylbinbis(acetylacetonate)	Dermal	Rat	LD50	> 2000 mg/kg bw
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Oral	Rat	LD50	3230 mg/kg bw
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Dermal	Rat	LD50	> 3170 mg/kg bw

Skin corrosion/irritation:

May cause slight irritation.

Serious eye damage/irritation:

May cause eye irritation.

Respiratory or skin sensitisation:

Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine, N-(3-(trimethoxysilyl)-propyl)ethylenediamine, dioctyltinbis(acetylacetonate) 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.

Germ cell mutagenicity:

Based on the existing data, the classification is not met.

Carcinogenicity:

Based on the existing data, the classification is not met.

Reproductive toxicity:

Based on the existing data, the classification is not met.

STOT-single exposure:

Based on the existing data, the classification is not met.

STOT-repeated exposure:

Based on the existing data, the classification is not met.

Aspiration hazard:

Based on the existing data, the classification is not met.

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11.2. Information on other hazards

Test data are not available.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
Diisononyl phthalat	96 Hours	Fish	LC50	>102 mg/L
Diisononyl phthalat	48 Hours	Daphnia	LC50	>74 mg/L
Diisononyl phthalat	72 Hours	Algae	EC50	>88 mg/L
Trimethoxyvinylsilane	96 Hours	Fish	LC50	191 mg/L
Trimethoxyvinylsilane	48 Hours	Daphnia	EC50	168,7 mg/L
Trimethoxyvinylsilane	72 Hours	Algae	EC50	>89 mg/L
N-(3-(Trimethoxysilyl)propyl)-ethylenediamine	96 Hours	Fish	LC50	597 mg/L
N-(3-(Trimethoxysilyl)propyl)-ethylenediamine	48 Hours	Daphnia	LC50	81 mg/L
N-(3-(Trimethoxysilyl)propyl)-ethylenediamine	72 Hours	Algae	EC50	8,8 mg/L
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate	96 Hours	Fish	LC50	0,9 mg/L
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate	72 Hours	Algae	EC50	1,68 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Diisononyl phthalat	Yes	EU Method C.4-A	28 Days 81%
Trimethoxyvinylsilane	No	OECD Guideline 301 F	28 Days 51 %
N-(3-(Trimethoxysilyl)propyl)-ethylenediamine	No	EU Method C.4-A	28 Days 39%
Diocetylbinbis(acetylacetonate)	No	OECD Guideline 301 F	28 Days 9 %
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	OECD Guideline 301 E	28 Days 38%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow
Diisononyl phthalat	Yes	8,8-9,7
Trimethoxyvinylsilane	No	1,1
Diocetylbinbis(acetylacetonate)	Yes	ca. 9,259
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	2,37-2,77

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12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

Test data are not available.

12.7. Other adverse effects

None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is not classified as hazardous waste according to Waste Management. Disposal of spillage and waste via the municipal waste collection service with the specifications below is recommended.

EWC-Code	Description
08 04 10	Waste adhesives and sealants other than those mentioned in 08 04 09

Specific labelling:

-

Contaminated packaging:

Empty packaging and residues must be disposed of through the municipal waste collection service for hazardous waste.

SECTION 14: Transport information

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

14.1 -14.4.

ADR

-

IMDG/IATA

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Maritime transport in bulk according to IMO instruments

Not relevant.

SECTION 15: Regulatory information

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

Sources:

EH40/2005 Workplace exposure limits (Fourth Edition 2020).

Additional labelling:

-

Restrictions for application:

-

Demands for specific education:

-

15.2. Chemical safety assessment

None.

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SECTION 16: Other information

According to EU regulation 1907/2006 (REACH)

Other information:

Sources:

EC regulation 1907/2006 (REACH), with amendments.

EC Regulation 1272/2008 (CLP), with amendments.

EU regulation no. 276/2010

Directive 2000/532/EC

ECHA - The European Chemicals Agency

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH 208	Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine, N-(3-(trimethoxysilyl)-propyl)ethylenediamine, dioctyltinbis(acetylacetonate) 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.
EUH 210	Safety data sheet available on request.

Classification according to Regulation (EC) Nr. 1272/2008:

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Abbreviations and acronyms used in the safety data sheet:

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals. Regulation (EC) No 1907/2006.

CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

CAS-Number.: Chemical Abstracts Service number.

EC-Number.: EINECS and ELINCS Number (see also EINECS and ELINCS).

DNEL: Derived No Effect Level.

PNEC(s): Predicted No Effect Concentration(s).

STOT: Specific Target Organ Toxicity.

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

LC50: Lethal Concentration to 50 % of a test population.

EC50: The effective concentration of substance that causes 50% of the maximum response.

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: Very Persistent and Very Bioaccumulative.

NOEC: The highest tested concentration at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group.

NOAEL: The highest tested dose or exposure level at which there are no statistically significant increases in the frequency or severity of adverse effects between the exposed population and an appropriate control group; some effects may be produced at this level, but they are not considered adverse or precursors of adverse effects.

Other:

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.

Minor changes have been made in following sections:

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This material safety data sheet replaces version:

1.0