

ARDEX AF 180

Safety Data Sheet

according to Regulation (EU) 2015/830

Issue date: 11/12/2018 Revision date: 8/7/2020



Supersedes: 5/14/2019

Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : ARDEX AF 180
Product code : 7640

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

1.2.1. Relevant identified uses

Main use category : Construction materials
Industrial/Professional use spec : For professional use only
Use of the substance/mixture : Floor Covering Adhesives
Installation products, methoxysilane-containing

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

ARDEX Baustoff GmbH
Hürmer Str. 40
A-3382 Loosdorf - Österreich
T +43/2754/7021-0 - F +43/2754/2490
E-mail address of competent person responsible for the SDS : produktion@ardex.at

1.4. Emergency telephone number

Emergency number : +43-(0)1-4064343 (Vergiftungsinformationszentrale Österreich)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment H412
— Chronic Hazard, Category 3

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : None
Hazardous ingredients : 3-aminopropyltriethoxysilane
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP) : P273 - Avoid release to the environment.
P102 - Keep out of reach of children.

2.3. Other hazards

PBT: not relevant – no registration required
vPvB: not relevant – no registration required

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : adhesives

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-aminopropyltriethoxysilane	(CAS-No.) 919-30-2 (EC-No.) 213-048-4 (EC Index-No.) 612-108-00-0 (REACH-no) 01-2119480479-24	> 0,25 - < 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate	(CAS-No.) 52829-07-9 (EC-No.) 258-207-9	> 0,1 - < 0,25	Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
	(CAS-No.) 162627-31-8	> 0,1 - < 0,25	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Remove dirty clothes.
- First-aid measures after inhalation : Move to fresh air. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist call a doctor.
- First-aid measures after ingestion : Get immediate medical advice/attention. Do not induce vomiting.

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

- Symptoms/effects : If symptoms persist call a doctor.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂). extinguishing powder. Water spray. Alcohol-resistant foam.
- Unsuitable extinguishing media : high volume water jet.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Combustible liquid.
- Explosion hazard : None.
- Reactivity in case of fire : Product is not explosive.
- Hazardous decomposition products in case of fire : None.

5.3. Advice for firefighters

- Precautionary measures fire : Evacuate area.
- Firefighting instructions : Contain the extinguishing fluids by bunding.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Put on breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Ensure adequate air ventilation.

6.1.1. For non-emergency personnel

- Protective equipment : Concerning personal protective equipment to use, see section 8.
- Emergency procedures : Avoid contact with skin and eyes.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Advise local authorities if considered necessary.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Other information : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

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6.4. Reference to other sections

See Heading 7. See Heading 8. See Heading 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : See Heading 8.
Precautions for safe handling : Use only in well ventilated areas. Avoid contact with skin and eyes.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : No special requirements.
Storage conditions : Store in cool, dry conditions in well sealed receptacles.
Information on mixed storage : Not required.
Storage area : Protect from humidity and water.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limits

8.2. Exposure controls

Appropriate engineering controls:

Ensure there is adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment:

Protective goggles. Gloves.

Hand protection:

Preventive skin protection is recommended. Protective gloves made of rubber. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Time of penetration is to be checked with the glove producer

Eye protection:

Wear closed safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Use appropriate ventilation. [In case of inadequate ventilation] wear respiratory protection.



Environmental exposure controls:

Avoid release to the environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Paste.
Colour : white.
Odour : characteristic.
Odour threshold : No data available
pH : Not determined
Relative evaporation rate (butylacetate=1) : No data available
Melting point : Not applicable

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Freezing point	: No data available
Boiling point	: 394 °C
Flash point	: > 200 °C
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Not specifically applicable Not self-igniting
Vapour pressure	: Not determined
Relative vapour density at 20 °C	: No data available
Relative density	: Not determined
Density	: 1.45 g/cm ³ (EN ISO 2811-1)
Solubility	: Slightly miscible.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not determined
Viscosity, dynamic	: 100000 mPa·s (ISO 2555)
Explosive properties	: None.
Oxidising properties	: Combustible.
Explosive limits	: Not determined Not determined

9.2. Other information

VOC content : 0 % VOC - Swiss ordinance

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition when used according to regulations.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Reacts vigorously with strong oxidizers and acids.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Product releases small amounts of methanol when used as intended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

3-aminopropyltriethoxysilane (919-30-2)	
LD50 oral rat	1.57 – 2.83 ml/kg (EPA OTS 798.1175, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	4.29 ml/kg (EPA OTS 798.1100, 24 h, Rabbit, Male / female, Experimental value, Dermal)
LC50 inhalation rat (ppm)	> 5 ppm (OECD 403: Acute Inhalation Toxicity, 6 h, Rat, Male, Experimental value, Inhalation (vapours))
bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9)	
LD50 oral rat	3700 mg/kg bodyweight (Equivalent or similar to OECD 423, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 3170 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	0.5 mg/l air (Equivalent or similar to OECD 403, 4 weeks (daily, 5 days / week), Rat, Male / female, Experimental value, Inhalation (aerosol), 7 day(s))

Skin corrosion/irritation	: Not classified pH: Not determined
Serious eye damage/irritation	: Not classified pH: Not determined
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Viscosity, kinematic	68965.517 mm ² /s

Potential adverse human health effects and symptoms : No data available.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to fishes.

3-aminopropyltriethoxysilane (919-30-2)	
LC50 fish 1	> 934 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	331 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	> 1000 mg/l (EU Method C.3, 72 h, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9)	
LC50 fish 1	4.4 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)
ErC50 (algae)	0.705 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

12.2. Persistence and degradability

ARDEX AF 180	
Persistence and degradability	Not applicable.

3-aminopropyltriethoxysilane (919-30-2)	
Persistence and degradability	Not readily biodegradable in water.

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

ARDEX AF 180	
Bioaccumulative potential	No bioaccumulation.

3-aminopropyltriethoxysilane (919-30-2)	
BCF fish 1	3.4 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.7 (QSAR, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9)	
Partition coefficient n-octanol/water (Log Pow)	0.35 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

ARDEX AF 180	
Ecology - soil	Do not allow undiluted product enter the sewer. Harmful to aquatic life.

3-aminopropyltriethoxysilane (919-30-2)	
Ecology - soil	No (test)data on mobility of the substance available.

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9)	
Surface tension	Not applicable (solid)
Partition coefficient n-octanol/water (Log Koc)	2.89 – 4.2 (log Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method, Experimental value, GLP)
Ecology - soil	No straightforward conclusion can be drawn based upon the available numerical values.

12.5. Results of PBT and vPvB assessment

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PBT: not relevant – no registration required	
vPvB: not relevant – no registration required	

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Component	
3-aminopropyltriethoxysilane (919-30-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Do not dispose of with domestic waste. Do not discharge into drains or the environment. Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Do not put down the drain. Must undergo physico-chemical treatment prior to disposal.

European List of Waste (LoW) code : 08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09
08 04 00 - wastes from MFSU of adhesives and sealants (including waterproofing products)
08 00 00 - WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
Uncleaned packagings
Recycle or dispose of in compliance with current legislation

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

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3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	3-aminopropyltriethoxysilane ;
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	ARDEX AF 180 ;

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 0 % VOC - Swiss ordinance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.