

SAFETY DATA SHEET

Page: 1 of 14

According to Regulation (EC) 1907/2006 (REACH)
and Regulation (EC) 1272/2008 (CLP)

Release date: 10.12.2021 (Version 1.1 EN)

Name of the product:

FORTECOAT 1410, 1420, 1426**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Mixture

Water dispersion of styrene / acrylate polymer

Aqueous polymer dispersion based on methacrylic and
acrylic acid esters

Aqueous dispersion of wax-based compounds

Another name of the substance or mixture:

FORTECOAT 1410 – Penetration
coating**FORTECOAT 1420** – Final coating**FORTECOAT 1426** – Final coating

Registration number (submission number):

It is a mixture. They were verified registration of
individual components.

ES Number (EINECS):

none, it is a mixture

CAS No.:

not applicable

Index No:

not applicable

Form:

Mixture, is not in nano form nor does it contain
ingredients in nano form

UFI:

Fortecoat 1410: JQ90-00H7-Y00Y-K8EX,

Fortecoat 1420: 07K0-30UJ-900Y-224A

Fortecoat 1426: QKE1-G0RE-A00V-4V14, QKE1-G0RE-A00V-4V14

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

Relevant identified uses - construction (coatings)

Uses advised against – not known

1.3 Details of the supplier of the safety data sheet**Supplier/manufacturer/ importer**

Name:

FORTEMIX s.r.o.

Address

Kirilovova 812
739 21 Paskov
CZECH REPUBLIC**Information contact**

E-Mail (competent person)

mfo@fortemix.eu

Telephone:

+420 558 638 311 +420 558 638 310

Competent person responsible for the safety data sheet: Ing. Miroslava Strockova[ENVIFORM a.s.](#)miroslava.strockova@trz.cz

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Name of the product:

FORTECOAT 1410, 1420, 1426**1.4 Emergency telephone number**Toxicological information Centre:
Na Bojisti 1, 128 08 Praha 2+420 224 919 293
+420 224 915 402
(+420 224 914 575)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP]**

Is not classified as CLP

Signal word:

none

Hazard statements:

none

Precautionary statements:

P102 Keep out of reach of children.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing..

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

Note: none**Other hazards:** not known.**Concentration limits from the approved classification and labeling list:**

not specified

2.2 Label elements

No mandatory labeling elements.

Signal word:

none

Hazard statements:

none

Precautionary statements:

P102 Keep out of reach of children.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing..

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

Components that must be listed on the label: 2-amino-2-methylpropanol

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2.3 Other hazards

The mixture is neither PBT nor vPvB. The mixture neither on the list of endocrine disruptors, nor does it contain an ingredient that would be on the list of endocrine disruptors. (according to the list from 8.12.2021).

Adverse physicochemical effects:

Liquid.

Adverse human health effects and symptoms:

Eye contact can cause irritation and redness. In individuals with sensitive skin it can cause irritation.

Adverse environmental effects:

No adverse effects known in the aquatic environment.

Concentration limits from the approved classification and labeling list:

Not specified.

SECTION 3. Composition/information on ingredients

3.1 Substances

Not applicable. It is a mixture

3.2 Mixtures

Substance name	EINECS	CAS	Concent ration	Classification according Regulation (EC) No. 1272 [CLP]
2-amino-2- methylpropanol	204-709-8	124-68-5	<1,5	Skin Irrit.2, Eye Irrit 2, Aquatic Chronic 3 H315, H319, H412

*Note: classification according to the date of the review.***Specific concentration limit, The M-factor and the Acute Toxicity estimate (ATE)**

No specific concentration limits, M-Factors, acute toxicity estimate (ATE) have been determined for the substance.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. When cardiac arrest occurs it is necessary to start indirect heart massage immediately; If unconscious, place in recovery position and get medical attention immediately



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FORTECOAT 1410, 1420, 1426**Inhalation:**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical help if coughing or other symptoms persist.

Skin contact:

Remove contaminated clothing, shoes, and leather goods such as watchbands and belts. Rinse the affected area with plenty of water and soap. The skin can be treated with a reparative cream. In case of persistent irritation, seek medical attention.

Eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention immediately. Call a poison center or physician.

Ingestion:

Have victim rinse mouth thoroughly with water. Do not induce vomiting. Give victims a small amount of water to drink (2-5 dl) with 5 charcoal tablets. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If you experience digestive problems or pain seek medical advice, show your doctor a label or this safety data sheet.

4.2 Most important symptoms and effects, both acute and delayed**Acute symptoms**

Mixture may irritate the skin and mucous membranes.

Chronic symptoms

Inhalation: not known

Systemic effects: n.a.

4.3 Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to doctors

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Common cements are not flammable.
Extinguishing powder, CO₂, water spray.

Unsuitable extinguishing media

Direct stream of water.

5.2 Special hazards arising from the substance or mixture

In case of fire, dense black smoke may form, which may contain unidentifiable toxic or irritant compounds or CO.



5.3 Advice for fire-fighters

The mixture does not burn until the water it contains is evaporated. Dry resin is flammable.

In case of fire fighting, use an insulating respirator, chemical protective suit. [Clothing that does not comply with EN469 is not suitable for chemical accidents.](#) [EN 469 - Protective clothing for firemen.](#)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and mucosa. When disposing of accidental spillage, use personal protective (protective clothing, closed shoes). If there is an accident or fire, wear self-contained breathing apparatus. During work and after its completion, wash your hands with soap and water, do not eat, drink or smoke.

6.1.1 For non-emergency personnel

Keep unauthorized persons away from the affected area. Do not enter the affected area without personal protective equipment.

6.1.2 For emergency responders

not specified

6.2 Environmental precautions

Prevent the spread of drains, surface water and groundwater. Do not pour into drains.

6.3 Methods and material for containment and cleaning up

Pump the mixture back into the package and regenerate / recycle. Sprinkle the rest with sorbent (eg sand, sawdust, etc.) Disposed of in accordance with applicable waste regulations. Clean the area thoroughly.

6.4 Reference to other sections

See more information in Section 8 and Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid prolonged and repeated direct contact with skin, eye contact and garbage. Use protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store at room temperature from 5 to 40 ° C. During long-term storage, the product may smell due to bacterial processes which can be eliminated by the use of suitable fungicidal agents.

7.3 Specific end uses

n.d.

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FORTECOAT 1410, 1420, 1426**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****DNEL and PNEC**

It is a mixture and therefore not prepared dossiers and determined DNELs and PNECs. DNELs and PNECs for individual components are listed in Table.

- DNEL (Derived No-Effect Level)
- PNEC (Predicted No-Effect Concentration)

DNEL

DNEL Component	Workers							
	Long-term exposure - systemic effects.		Long-term exposure - local effects.		Acute toxicity short-term exposure – systemic effects		Acute toxicity short-term exposure - local effects	
	Inhal. mg/m ³	Dermal. mg/kg bw/day	Inhal. mg/m ³	Dermal. mg/kg bw/day	Inhal. mg/m ³	Dermal. mg/kg bw/day	Inhal. mg/m ³	Dermal. mg/kg bw/day
2-amino-2-methylpropanol	6,5	7,3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

Source of information: www.echa.eu

DNEL Component	Population							
	Long-term exposure - systemic effects.		Long-term exposure - local effects.		Acute toxicity short-term exposure – systemic effects		Acute toxicity short-term exposure - local effects	
	Inhal. mg/m ³	Dermal. mg/kg bw/day	Inhal. mg/m ³	Dermal. mg/kg bw/day	Inhal. mg/m ³	Dermal. mg/kg bw/day	Inhal. mg/m ³	Dermal. mg/kg bw/day
2-amino-2-methylpropanol	1,6	37	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

Source of information: www.echa.eu

DNEL Component	Population	
	Long-term exposure - systemic effects. – Oral. mg/kg bw/day	Acute toxicity short-term exposure – systemic effects – Oral. mg/kg bw/day
2-amino-2-methylpropanol	0,46	n.d.

Source of information: www.echa.eu**PNEC**

PNEC (mg/l) (mg/kg)	Fresh water	Marine water	STP	Sediment (Fresh water)	Sediment (Marine water)	Soil	Air
2-amino-2-methylpropanol	0,188	0,0188	10	0,71	0,071	0,03	n.d.

Source of information: www.echa.eu**8.2 Exposure controls**

Workers must be provided with personal protective equipment, which must be maintained in an increasingly usable condition and damaged immediately replaced. Practice good hygiene work with chemicals and store and handle in accordance with all current regulations and standards applicable to working with chemicals. After work, wash hands with soap and water, treat with a regeneration cream.



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FORTECOAT 1410, 1420, 1426**8.2.1 Appropriate engineering controls**

Not have been established. Based on the parameters from the Section 8.1

8.2.2 Appropriate engineering controls

Respiratory protection::	Proper ventilation should be sufficient. Some work may require local exhaust. If a misty atmosphere is created, it is necessary to use a mask with FFP2SI filter
Hand protection:	ochranné pracovní rukavice (neopren, nitrilkaučuk, polyvinylchlorid).
Eye protection:	Protective working gloves (neoprene, nitrile rubber, polyvinyl chloride).
Skin protection:	protective clothing, protective footwear.
Thermal hazards:	no data.

PPE and their use must be in accordance with Regulation (EU) 2016/425

8.2.3 Environmental exposure controls

Do not discharge into the sewer, surface water or soil.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

a) Physical state	liquid
b) Colour	white color
c) Odour	charecteristic
d) Melting point/freezing point	0
e) Boiling point or initial boiling point and boiling range	100
f) Flammability	n.a
g) Lower and upper explosion limit	not explosive
h) Flash point	n.a
i) Auto-ignition temperature	n.a
j) Decomposition temperature	n.d.
k) pH	7,5-10,0
l) Kinematic viscosity	n.a
m) Solubility	soluble
n) Partition coefficient n-octanol/water (log value)	n.d.
o) Vapour pressure	n.a
p) Density and/or relative density	n.a
q) Relative vapour density	n.d.
r) Particle characteristics	not nanoparticles

9.2 Other information**9.2.1. Information with regard to physical hazard classes**

(a) Explosives:	n.a.
(i) sensitivity to shock;	
(ii) effect of heating under confinement;	
(iii) effect of ignition under confinement;	
(iv) sensitivity to impact;	
(v) sensitivity to friction;	
(vi) thermal stability;	
(vii) package	



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FORTECOAT 1410, 1420, 1426**(b) Flammable gases n.a.**

- (i) the TCi (maximum content of flammable gas which, when mixed with nitrogen, is not flammable in air, in mol. %);
- (ii) the fundamental burning velocity
- (i) explosion limits
- (ii) fundamental burning velocity

(c) Aerosols n.a.**(d) Oxidising gases n.a.****(e) Gases under pressure n.a.****(f) Flammable liquids n.a.****(g) Flammable solids n.a.**

- (i) burning rate, or burning time as regards metal powders,
- (ii) statement on whether the wetted zone has been passed;
- (h) Self-reactive substances and mixtures
- (i) decomposition temperature,
- (ii) detonation properties,
- (iii) deflagration properties,
- (iv) effect of heating under confinement,
- (v) explosive power, if applicable;

(i) Pyrophoric liquids n.d.**(j) Pyrophoric solids n.d.****(k) Self-heating substances and mixtures n.d.****(l) Substances and mixtures, which emit flammable gases in contact with water n.d.****(n) Oxidizing solids n.a.****(o) Organic n.d.**

- (i) decomposition temperature,
- (ii) detonation properties,
- (iii) deflagration properties,
- (iv) effect of heating under confinement,
- (v) explosive power;

(p) Corrosive to metals n.d.

- (i) metals that are corroded by the substance or mixture,
- (ii.) corrosion rate and statement on whether it refers to steel or aluminium,
- (iii.) reference to other sections of the safety data sheet with regard to compatible or incompatible materials.

(q) Desensitised explosives n.d.**9.2.2. Other safety characteristics****(a) mechanical sensitivity n.d.****(b) self-accelerating polymerisation temperature n.a.****(c) formation of explosible dust/air mixtures n.d.****(d) acid/alkaline reserve n.d.****(e) evaporation rate n.d.****(f) miscibility n.d.**

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(g) conductivity n.d.
(h) corrosiveness n.d.
(i) gas group n.d.
(j) redox potential n.d.
(k) radical formation potential n.d.
(l) photocatalytic properties n.d.
Other physical and chemical parameters n.d.

SECTION 10: Stability and reactivity**10.1 Reactivity**

Mixture is stable with proper handling and storage.

10.2 Chemical stability

The mixture may precipitate if frozen (0 ° C).

10.3 Possibility of hazardous reactions

Contact with acids or salts of multivalent metals may cause coagulation.
Dry resin is flammable.

10.4 Conditions to avoid

Avoid exposure to low temperatures.

10.5 Incompatible materials

n.d.

10.6 Hazardous decomposition products

n.d.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****a) Acute toxicity**

LD₅₀ , oral (rat) > 2000 mg/kg.

b) Skin corrosion/irritation

In case of prolonged repeated exposure, it may appear to be slightly irritating.

c) Eye damage/irritation

n.d

d) Sensitisation to the respiratory tract/skin

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n.d.

e) Germ cell mutagenicity

n.d.

f) Carcinogenicity

n.d.

g) Reproductive toxicity

n.d.

h) Specific target organ toxicity (single exposure)

n.d.

i) Specific target organ toxicity (repeated exposure)

n.d.

j) Aspiration hazard

n.d.

Information on likely routes of exposure

Inhalation: n.a.

Oral: Unlikely exposure route.

Dermal: The most likely route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: no data.

Skin contact: In case of prolonged repeated exposure, it may appear to be slightly irritating.

Eye contact: In case of prolonged repeated exposure, it may appear to be slightly irritating.

Ingestion: no data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Mixture may irritate the skin and mucous membranes.

Interactive effects

n.d.

Absence of specific data

n.d.

Mixtures**Mixture versus substance information**

They were compared and used information from safety data sheets components products.

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

The substance is neither on the list of endocrine disruptors, nor does it contain an ingredient that would be on the list of endocrine disruptors. (according to the list from 8.12.2021).



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Consistency of information with the registration application or chemical safety report:

This is a mixture. The individual ingredients have been registered under REACH and the information from the registration documents has been used for the preparation.

Other information

n.d.

SECTION 12: Ecological information

12.1 Toxicity

LC₅₀, 96 h., fish (mg.l⁻¹): >10
EC₅₀, 48 h., dafnie (mg.l⁻¹): >100

12.2 Persistence and degradability

The mixture is biodegradable.

12.3 Bioaccumulative potential

n.d.

12.4 Mobility in soil

n.d.

12.5 Results of PBT and vPvB assessment

PBT / vPvB properties are not expected. Individual components are not assessed as PBT, vPvB.

12.6 Endocrine disrupting properties

The substance is neither on the list of endocrine disruptors, nor does it contain an ingredient that would be on the list of endocrine disruptors. (according to the list from 8.12.2021).

12.7 Other adverse effects

n.d.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendations for Product:

The mixture must be disposed of as hazardous waste in accordance with local regulations, in special landfills and cleaners.

Small quantities can be deposited together with household waste.

Recommendations for packaging:



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Contaminated packaging is disposed of as well as a mixture. Waste catalog number 150105 - composite waste.

SECTION 14: Transport information

The mixture is not covered by international regulation on transporting dangerous goods (IMDG, IATA, ADR / RID); no classification is required.

	Land transport ADR / RID	Sea transport IMDG	Air transport ICAO-TI a IATA-DGR	Inland waterway transport (ADN)
14.1 UN number or ID number	Not Regulated	Not Regulated	Not Regulated	Not Regulated
14.2 UN proper shipping name	n.d.	n.d.	n.d.	n.d.
14.3 Transport hazard class(es)	n.d.	n.d.	n.d.	n.d.
Hazard Label(s)	n.d.	n.d.	n.d.	n.d.
14.4 Packing group	n.d.	n.d.	n.d.	n.d.
14.5 Environmental hazards	None .	None	None	None
14.6 Special precautions for user	n.a.	n.a.	n.a.	n.a.
14.7 Maritime transport in bulk according to IMO instruments	n.a.	n.a.	n.a.	n.a.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Safety data sheet is according to European legislation

Regulation EC 1907/2006

Regulation EC 1272/2008

[COMMISSION REGULATION \(EU\) 2020/878](#)

Authorisations and/or restrictions on use: not applicable

Authorisations: Restrictions on use: not applicable

Other regulations

n.d.

National regulations

n.d.



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15.2 Chemical safety assessment

Chemical safety assessment was not carried out for whole mixture. Chemical safety assessment is in Safety data sheets of components.

SECTION 16: Other information

Indication of changes

- Safety Data Sheet of 31.8.2017 (version 1 EN), was revised in accordance with Commission Regulation (EU) 2020/878
- Specification of certain data in accordance with Commission Regulation (EU) 2020/878, information on Endocrine Disruptors, recast of Section 9, clarification in Sections 1, 2, 3, 8, 11, 12, 14
- Changes are shown in blue color
- The safety data sheet dated 31.8.2017 replaces the revision dated 10.12.2021

Key literature references and sources for data

- Regulation EC 1907/2006
- Regulation EC 1272/2008
- [COMMISSION REGULATION \(EU\) 2020/878](#)
- Safety data sheet in Czech language
- Safety data sheets of components
- www.echa.eu

Relevant H- P and EUH-phrases (number and full text)

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing..

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

Training advice

Workers who come into contact with hazardous substances / mixtures must be acquainted with effects of these substances / mixtures, ways to treat them with protective measures, the principles of first aid, with the necessary sanitation procedures and the procedures for liquidation of failures and accidents.

A person dealing with the chemical product must be familiar with the information given in the SDS. Persons carrying dangerous substances / mixtures must be aware of the guidelines for emergency response in accordance with the ADR / RID.



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FORTECOAT 1410, 1420, 1426**Abbreviations and acronyms**

- DNEL – (Derived No-Effect Level)
- EC50 – efektive concentration
- LC₅₀ – (Lethal concentration)
- LD₅₀ – (Lethal dose)
- **n.a. – not applicable**
- **n.d. – no data**
- PBT – perzistent, bioakumulative toxic
- PNEC – (Predicted No-Effect Concentration)
- vPvB – very perzistent, very bioakumulative
- ADR – European agreement concerning the international carriage of dangerous goods by Road.
- IMDG – International Maritime Dangerous Goods.
- IATA – International Air Transport Association.
- ICAO – International Civil Aviation Organisation
- RID – Regulations concerning the International carriage of Dangerous goods by rail.
- CAS – Chemical Abstract Service

Further information

Safety Data Sheet has been prepared in accordance with the Regulation EC 1907/2006 Regulation EC 1272/2008, as amended. Safety Data Sheet contains data necessary for ensuring safety and health at work and environmental protection. These data correspond to the current state of knowledge and experience. The information reflects the current state of our knowledge; describe the product with regard to safety but cannot be considered as guaranteed values. The recipient must have own responsibility for adhering to existing laws and regulations.

