

SAFETY DATA SHEET

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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:

**FORMULA FORTE 1610 HARD,
1630 SHINE, 1605 INTEGRAL****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Mixture
Water dispersion based on silicates

Another name of the substance or mixture:

**FORMULA FORTE 1610 HARD,
FORMULA FORTE 1630 SHINE
FORMULA FORTE 1605
INTEGRAL**

Registration number (submission number):

It is a mixture. Registration of individual components was
verified

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:

[FORMULA FORTE 1610: 2TS2-H0AR-100C-KTQV, 2TS2-H0AR-100C-KTQV](#)

[HARD, FORMULA FORTE 1630 SHINE: FPC3-S0W9-R009-5TX9](#)

[FORMULA FORTE 1605 INTEGRAL: 25R4-A0JT-C008-MTD7](#)

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

Relevant identified uses - construction - final coating

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

miroslava.strockova@trz.cz[ENVIFORM a.s.](#)

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Name of the product:

**FORMULA FORTE 1610 HARD,
1630 SHINE, 1605 INTEGRAL****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]**

Skin irrit.2 H315, Eye Irrit.2, H319, STOT SE3 H335

Signal word: Warning**Hazard statements**

H315 Causes skin irritation.
H319 Causes serious eye irritation
H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Adverse physicochemical effects:

None known.

Adverse human health effects and symptoms

Irritates the respiratory system. May cause respiratory irritation, coughing if inhaled. Irritating to skin, may cause skin redness, itching, burning, rash. Causes severe eye irritation, redness, tearing, itching, burning.

Adverse environmental effects

None known.

Other hazards: not known.**Concentration limits from the approved classification and labeling list:**

Not specified.

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Name of the product:

**FORMULA FORTE 1610 HARD,
1630 SHINE, 1605 INTEGRAL****2.2 Label elements****FORMULA FORTE 1610 HARD,
FORMULA FORTE 1630 SHINE,
FORMULA FORTE 1605
INTEGRAL****Contains:**

Silicon dioxide, Silicic acid, potassium salt
Diluted metasilicate

FORTEMIX s.r.o.
Kirilovova 812
739 21 Paskov
CZECH REPUBLIC
Tel.: +420 558 638 311

Warning

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Note: The size of the label depends on the size of the package, the pictogram to label size is given in Regulation (EC) 1272/2008. The label above has only informative character and size. And the ratios may not match.

Note: none

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.

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).

SECTION 3. Composition/information on ingredients**3.1 Substances**

Not applicable. It is a mixture

3.2 Mixtures

The product **Formula Forte 1610 Hard** and **Formula Forte 1630 Shine** and **Formula Forte 1605 Integral** are classified as irritating. Other chemical additives are not listed and not classified due to their inertness.

Substance name	Concentration	CAS: EINECS:	Classification	Hazard statements
Silicon dioxide	<40 %	7631-86-9 231-545-4	Skin. Irrit.2, Eye Irrit. 2 STOT SE 3	H315, H319, H335
Diluted metasilicate	>2 %	10102-24-6 233-270-5	Eye Irrit. 2 STOT SE 3	H319, H335
Silicic acid, potassium salt	>2 %	1312-76-1 215-199-1	Skin.Irrit 2, Eye dam.1, Met.Corr.1, Skin Corr.1B	H315 H318 H290 H314

Note: classification according to the date of the review.



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Name of the product:

**FORMULA FORTE 1610 HARD,
1630 SHINE, 1605 INTEGRAL****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

Inhalation:

Break the effect of the mixture. Remove the affected person to fresh air, taking care of your personal safety. Keep victim warm and at rest, do not give victim anything to eat or drink until the symptoms subside. Seek medical help promptly.

Skin contact:

Remove contaminated clothing. Rinse the affected area with a stream of water and soap. Do not use the solvent in any way. If irritation occurs, ensure medical treatment.

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**

In case of contact with eyes: tearing, redness, irritation, burning.

Inhalation: cough, breathing difficulties.

Ingestion: Irritation of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract.

Chronic symptoms

Long-term inhalation of crystalline silica can lead to silicosis, debilitating lung fibrosis, characterized by fibrous changes and millipedes in the lungs, dry cough, shortness of breath, emphysema, reduced chest stretching, and increased susceptibility to tuberculosis. In the developed stages, there is a loss of appetite, pleurisy and complete incapacity for work. Advanced silicosis may result in death due to heart failure or pulmonary tissue damage.

Systemic effects: n.a.

4.3 Indication of any immediate medical attention and special treatment needed

[Show this safety data sheet to doctors](#)



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**FORMULA FORTE 1610 HARD,
1630 SHINE, 1605 INTEGRAL****SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**Extinguishing powder, CO₂, water spray.**Unsuitable extinguishing media**

Direct stream of water.

5.2 Special hazards arising from the substance or mixture

Smoke during combustion may contain unidentifiable toxic and / or irritating compounds. In the event of a fire, dense black smoke may form, which may contain combustion products (CO₂ as well as CO).

5.3 Advice for fire-fighters

In case of fire, use breathing apparatus, chemical protective clothing. It does not burn until the water is evaporated. 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****6.1.1 For non-emergency personnel**

When disposing of accidental spillage, use personal protective (protective clothing, closed shoes), avoid contact with the skin, eyes and contamination of clothing. Danger of slipping, remove spilled material immediately. Use protective working aids.

6.1.2 For emergency responders

[Avoid skin contact, eye contact and contamination of clothing. Wear protective work equipment.](#)

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. Sprinkle the rest of the leak with sorbent (eg sand, sawdust, etc.) Disposed of in accordance with applicable waste regulations. Clean the area thoroughly with water.

6.4 Reference to other sections

See more information in Section 8 and Section 13.

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**FORMULA FORTE 1610 HARD,
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Avoid repeated and prolonged direct skin contact. While working and after to wash your hands with soap and water, do not eat, drink or smoke. Handle the applicable safety instructions.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses

Relevant identified uses - construction - final coating

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

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

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

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
Silicic acid, potassium salt	5,61	1,49	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Silicon dioxide	4	n.d.	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
Silicic acid, potassium salt	1,38	0,74	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Silicon dioxide	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

Source of information: www.echa.eu

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**FORMULA FORTE 1610 HARD,
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Population	Long-term exposure- Oral.	
DNEL	Long-term exposure - systemic effects.mg/kg bw/day	Acute toxicity short-term exposure – systemic effects mg/kg bw/day
Component		
Silicic acid, potassium salt	0,74	n.d.
Silicon dioxide	n.d.	n.d.

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

PNEC (mg/l) (mg/kg)	Fresh water	Marine water	Leak	STP	Sediment (Fresh water)	Sediment (Marine water)	Soil	Air
Component								
Silicic acid, potassium salt	7,5	1	7,5	348	n.d.	n.d.	n.d.	n.d.
Silicon dioxide	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

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

Workers must be provided with personal protective equipment, which must be maintained at all times usable condition and damaged ones must be replaced immediately. Ensure proper ventilation and extraction in the workplace. Comply with Hygiene principles for working with chemicals, store and handle in accordance with all normal regulations and standards applicable to the handling of chemicals. Wash hands with soap and water after work, treat skin with a restorative cream.

8.2.1 Appropriate engineering controls

They have not been established. [Based on the parameters from the Section 8.1.](#)

8.2.2 Personal protective equipment

Respiratory protection:	Proper ventilation should be sufficient. Some work may require local exhaust. If misty atmosphere occurs, it is necessary to use a mask with filter FFP2SI or equivalent ones.
Hand protection:	Protective gloves (neoprene, nitrile rubber, polyvinyl chloride).
Eye protection:	closed goggles or face shield.
Skin protection:	Protective clothing and boots
Thermal hazards:	no data.

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

8.2.3 Environmental exposure controls

n.a.

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**FORMULA FORTE 1610 HARD,
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a) Physical state	liquid
b) Colour	clear or slightly turbid
c) Odour	without odor
d) Melting point/freezing point	0
e) Boiling point or initial boiling point and boiling range	ca 100
f) Flammability	n.d.
g) Lower and upper explosion limit	not explosive
h) Flash point	39 - 42
i) Auto-ignition temperature	210
j) Decomposition temperature	<200
k) pH	7,5-10,0
l) Kinematic viscosity	n.a
m) Solubility	soluble in water
n) Partition coefficient n-octanol/water (log value)	n.d.
o) Vapour pressure	3,1 -3,8 hPa
p) Density and/or relative density	1,02 – 1,08 (density g/cm ³)
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

(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.**

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**FORMULA FORTE 1610 HARD,
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- (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.****(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.**

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**FORMULA FORTE 1610 HARD,
1630 SHINE, 1605 INTEGRAL****SECTION 10: Stability and reactivity****10.1 Reactivity**

When properly handled and stored, it is stable.

10.2 Chemical stability

n.d.

10.3 Possibility of hazardous reactions

n.d.

10.4 Conditions to avoid

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

10.5 Incompatible materials

It must not come into contact with aluminum, zinc and tin - are slowly dissolved to produce explosive hydrogen.

10.6 Hazardous decomposition products

n.d.

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

- LD₅₀, oral, rat (mg.kg⁻¹): > 3400
- LD₅₀, dermal, rat or rabbit (mg.kg⁻¹): Not established.
- LC₅₀, inhal, rat, for aerosol or particles (mg.m⁻³): Not established.
- LC₅₀, inhal, rat, for gases and vapours (mg.m⁻³): Not established.
- Subchronic-chronic toxicity: Not established

b) Skin corrosion/irritation

Acute skin irritation.

c) Eye damage/irritation

Acute eye irritation.

d) Sensitisation to the respiratory tract/skin

Is not known

e) Germ cell mutagenicity

Is not known

f) Carcinogenicity

Is not known

g) Reproductive toxicity

Is not known

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**FORMULA FORTE 1610 HARD,
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Is not known

i) Specific target organ toxicity (repeated exposure)

Is not known

j) Aspiration hazard

Is not known

Information on likely routes of exposure**Inhalation:** Likely route of exposure**Oral:** Unlikely exposure route.**Dermal:** Likely route of exposure**Symptoms related to the physical, chemical and toxicological characteristics**

In case of contact with eyes: tearing, redness, irritation, burning.

Inhalation: cough, breathing difficulties.

Ingestion: Irritation of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract.

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

Long-term inhalation of crystalline silica can lead to silicosis, debilitating lung fibrosis, characterized by fibrous changes and biliary nodules in the lungs, dry cough, shortness of breath, emphysema, Decreased chest stretching and increased susceptibility to tuberculosis. In the developed stages, there is a loss of appetite, pleurisy and complete incapacity for work. Advanced silicosis may result death, due to heart failure or pulmonary tissue damage.

Interactive effects

n.d.

Absence of specific data

n.d.

Other information**Experience in humans:**

When the recommended conditions are fulfilled does not act according to our knowledge, damage to health. It contains potassium silicate, which is irritating to the skin.

Mixture versus substance information

The information from safety data sheets of components were compared and used.

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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**FORMULA FORTE 1610 HARD,
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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.

SECTION 12: Ecological information**12.1 Toxicity**

Acute toxicity for aquatic organisms

-LC ₅₀ , 96 h, fish (mg.l ⁻¹):	3185 mg/l (pH = 10,1)
-EC ₅₀ , 48 h, dafnia (mg.l ⁻¹):	4857 mg/l
-IC ₅₀ , 72 h, algae (mg.l ⁻¹):	n.d.

Degradability:	Biodegradable
Toxicity for other environments:	n.d.
CHSK:	n.d.
BSK ₅ :	n.d.
Other information:	n.d.

12.2 Persistence and degradability

n.d.

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

Avoid leakage into soil, surface and ground water and waste water systems



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**FORMULA FORTE 1610 HARD,
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When disposing of the rest of the paint and waste it is necessary to proceed in accordance with the valid legislation in the field of waste management. Small quantities can be deposited together with household waste.

Methods of disposal of contaminated packaging:

Carefully cleaned containers that are solvent-washed are not hazardous waste.
(EUROPEAN WASTE CATALOGUE AND HAZARDOUS WASTE LIST 10 11 09 – waste preparation mixture before thermal processing, containing dangerous substances).

Other information

n.a.

SECTION 14: Transport information

Products for general use are 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
14.1 UN number or ID number	n.a. (not applicable)	n.a. (not applicable)	n.a. (not applicable)
14.2 UN proper shipping name	n.a.	n.a.	n.a.
14.3 Transport hazard class(es)	n.a.	n.a.	n.a.
Classification	n.a.	n.a.	n.a.
Danger number	n.a.	n.a.	n.a.
Hazard Label(s)	n.a.	n.a.	n.a.
14.4 Packing group	n.a.	n.a.	n.a.
14.5 Environmental hazards	n.a.	n.a.	n.a.
14.6 Special precautions for user	n.a.	n.a.	n.a.
14.7 Maritime transport in bulk according to IMO instruments	n.a.	n.a.	n.a.

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

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**FORMULA FORTE 1610 HARD,
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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.

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**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation

H335 May cause respiratory irritation.

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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:

**FORMULA FORTE 1610 HARD,
1630 SHINE, 1605 INTEGRAL**

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P337 + P313 If eye irritation persists: Get medical advice/attention.

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.

Abbreviations and acronyms

- DNEL (Derived No-Effect Level)
- IC₅₀ – (Half Maximal Inhibitory Concentration)
- LC₅₀ – (Lethal concentration)
- **n.a. – not applicable**
- **n.d. – no data**
- NOEC (No Observed Effect Concentration)
- PBT – persistent, bioaccumulative toxic
- PNEC (Predicted No-Effect Concentration)
- vPvB – very persistent, very bioaccumulative
- 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.