

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:

**FORMULAFORTE 1620
SUPER HARD****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Mixture
Aqueous solution of magnesium silicate

Another name of the substance or mixture:

**FORMULAFORTE 1620 SUPER
HARD**

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: EA23-M0P1-C00C-2ME8

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

Relevant identified uses - Construction - surface treatment of concrete floors.
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
+420 558 537 381

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)



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Name of the product:

**FORMULAFORTE 1620
SUPER HARD****SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP]****Acute Tox.3 H301, Eye Dam.1 H318****Signal word: Danger****Hazard statements**

H301 Toxic if swallowed.

H318 Causes serious eye damage.

Precautionary statements

P264 Wash your hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P301+P330+P310 IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

Adverse physicochemical effects:

None known.

Adverse human health effects and symptoms

It is harmful if inhaled. May cause respiratory irritation. Overexposure causes inflammation and edema of the larynx and bronchi. Symptoms of exposure are burning sensation, coughing, wheezing and laryngitis.

Symptoms/injury in contact with skin: May be harmful if absorbed through the skin.

Symptoms/injury in contact with eyes: Causes severe eye irritation, burning, tearing, pain.

Symptoms/Injury if swallowed : Toxic if swallowed. Ingestion of small amounts of this material results in serious health hazards.

Chronic symptoms : May cause osteofluorosis.

Adverse environmental effects

None known.

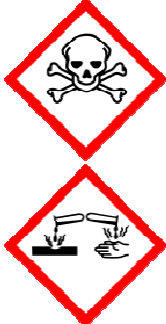
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Name of the product:

**FORMULAFORTE 1620
SUPER HARD****2.2 Label elements**

FORMULA FORTE 1620 SUPER HARD Contains: Magnesium hexafluorosilicate FORTEMIX s.r.o. Kirilovova 812 739 21 Paskov CZECH REPUBLIC Tel.: +420 558 638 311	Danger 	Toxic if swallowed. Causes serious eye damage. Wash your hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician..
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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.

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

Substance name	Concent ration	CAS: EINECS:	Classification	Hazard statements	Signal word	Pictogram
Magnesium hexafluorosilicate	>30 %	16949-65-8 241-022-2	Acute Tox. 3 Eye Dam. 1	H301 H318	Danger	GHS06 GHS05

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.

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**FORMULAFORTE 1620
SUPER HARD****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:

Move the affected person to fresh air and put it in a recovery position to avoid choking in case of vomiting. Ensure rest, affected person should not to eat, if the symptoms do not go away. If difficulties occur, provide medical treatment. If respiratory arrest occurs, perform artificial respiration.

Skin contact:

Remove contaminated clothing. Rinse the affected area with a stream of water and soap. If difficulties occur, 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:

If the affected person is conscious, give two glasses of water or milk and cause vomiting. Then orally administered 6 tablets effervescent calcium dissolved in water. Consult a doctor immediately. Caution: Ingestion of small amounts can cause sudden and severe hypocalcemia. In case of poisoning or accident, call a Service Emergency Hospital.

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

It is harmful if inhaled. May cause respiratory irritation. Overexposure causes inflammation and edema of the larynx and bronchi. Symptoms of exposure are burning sensation, coughing, wheezing and laryngitis.

Symptoms/injury in contact with skin: May be harmful if absorbed through the skin.

Symptoms/injury in contact with eyes: Causes severe eye irritation, burning, tearing, pain.

Symptoms/Injury if swallowed : Toxic if swallowed. Ingestion of small amounts of this material results in serious health hazards.

Chronic symptoms

May cause osteofluorosis

Long-term effects

Systemic effects: lungs, bones

4.3 Indication of any immediate medical attention and special treatment needed

Other information: There are not known any specific antidote. Start with supportive treatment. Treatment should be based on a physician's assessment of the patient's reactions.



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Name of the product:

**FORMULAFORTE 1620
SUPER HARD****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

Irritating fumes vapors may develop when material is mixed with other materials and exposed to elevated temperatures or open flame.

5.3 Advice for fire-fighters

Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust. [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, eye and contaminate of clothes. Wear protective equipment as described in Section 8.

6.1.1. For non-emergency personnel

No action may be taken that would pose a risk to the person, nor any action taken without proper prior training. Avoid entry of unauthorized and unprotected persons. Do not touch or enter spilled material. Do not breathe vapor or aerosol. Ensure adequate ventilation.

6.1.2 For emergency responders

Wear protective equipment as described in Section 8.

6.2 Environmental precautions

Prevent leakage into drains, surface water and soil.

6.3 Methods and material for containment and cleaning up

Spilled product is regenerated and recycled. Otherwise, capture the contaminated material into absorbent material (sand, wood chips) into the shipping containers and dispose the material of, in an environmentally right way. Water can be used to clean the affected area.



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**FORMULAFORTE 1620
SUPER HARD****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 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. Store away from acids. Keep away from food and food cans.

7.3 Specific end uses

Construction - surface treatment of concrete floors.

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	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
Magnesium hexafluorosilicate	2,5	n.d.	2,5	n.d.	2,5	n.d.	n.d.	n.d.

Source of information: www.echa.eu

DNEL	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
Magnesium hexafluorosilicate	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.



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**FORMULAFORTE 1620
SUPER HARD**Source of information: www.echa.eu

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		
Magnesium hexafluorosilicate	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								
Magnesium hexafluorosilicate	0,9	0,9.	51	n.d.	n.d.	11	n.d.	0,9

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

Workers must have at their disposal personal protective equipment, which must be kept in good shape and change immediately when damaged. Ensure good ventilation of the working area. Observe the hygiene principles of working with chemicals and store and handle in compliance with all applicable regulations and standards applicable to the handling of chemicals. After work, wash your hands with soap and water and treat the skin with a regenerating 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 FFP2S1 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

Not discharge into the sewer, surface water or soil.



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**FORMULAFORTE 1620
SUPER HARD****SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

a) Physical state	liquid
b) Colour	white
c) Odour	without odor
d) Melting point/freezing point	0
e) Boiling point or initial boiling point and boiling range	100
f) Flammability	n.d.
g) Lower and upper explosion limit	not explosive
h) Flash point	n.d.
i) Auto-ignition temperature	n.d.
j) Decomposition temperature	n.d.
k) pH	2,7
l) Kinematic viscosity	n.a
m) Solubility	soluble in water
n) Partition coefficient n-octanol/water (log value)	n.d.
o) Vapour pressure	n.d.
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.**

- (i) burning rate, or burning time as regards metal powders,



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SUPER HARD**

- (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.****SECTION 10: Stability and reactivity****10.1 Reactivity**

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**FORMULAFORTE 1620
SUPER HARD**

When properly handled and stored, it is stable

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

It must not come into contact with aluminum, zinc and tin - are slowly dissolved to produce explosive hydrogen. Hydrofluoride may also be released from the silicone tetrafluoride

10.4 Conditions to avoid

n.d.

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 (mg.kg⁻¹): 156 mg/kg
- 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

May cause skin irritation

c) Eye damage/irritation

Irritant, may cause eye tissue damage if not removed immediately.

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

h) Specific target organ toxicity (single exposure)

Is not known

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Name of the product:

**FORMULAFORTE 1620
SUPER HARD****i) Specific target organ toxicity (repeated exposure)**

Is not known

j) Aspiration hazard

Is not known

Informace o pravděpodobných cestách expozice**Inhalation:** Likely route of exposure**Oral:** Unlikely exposure route.**Dermal:** Likely route of exposure**Symptoms related to the physical, chemical and toxicological characteristics****Acute symptoms**

It is harmful if inhaled. May cause respiratory irritation. Overexposure causes inflammation and edema of the larynx and bronchi. Symptoms of exposure are burning sensation, coughing, wheezing and laryngitis. Symptoms/injury in contact with skin: May be harmful if absorbed through the skin. Symptoms/injury in contact with eyes: Causes severe eye irritation, burning, tearing, pain. Symptoms/Injury if swallowed : Toxic if swallowed. Ingestion of small amounts of this material results in serious health hazards.

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

There may be delayed, chronic effects. May cause osteofluorosis

Systemic effects: lungs, bones**Interactive effects**

n.d.

Absence of specific data

n.d.

Mixture versus substance information

They were compared and used information from safety data sheets of 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).

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

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**FORMULAFORTE 1620
SUPER HARD****12.1 Toxicity**

Acute toxicity for aquatic organisms

-LC₅₀, 96 h, fish (mg.l⁻¹): n.d.-EC₅₀, 48 h, dafnia (mg.l⁻¹): n.d.-IC₅₀, 72 h, algae (mg.l⁻¹): n.d.

Degradability: Not rapidly decomposable

Toxicity to other environments: Toxic to fish, daphnia and algae

CHSK: n.d.

BSK₅: n.d.

Další údaje: 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

n.d.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

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.

EUROPEAN WASTE CATALOGUE AND HAZARDOUS WASTE LIST

(kat.No. 08 01 11 – waste paint and varnish containing organic solvents or other dangerous substances).

(kat.No. 15 01 10 – packaging containing residues of or contaminated by dangerous substances)

(kat.No. 15 02 02 – absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances)

Other information

n.a.



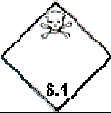
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**FORMULAFORTE 1620
SUPER HARD****SECTION 14: Transport information**

	Land transport ADR / RID	Sea transport IMDG	Air transport ICAO-TI a IATA- DGR
14.1 UN number or ID number	2856	2856	2856
14.2 UN proper shipping name	FLUROSILICATES, N.O.S.	FLUROSILICATES, N.O.S.	FLUROSILICATES, N.O.S.
14.3 Transport hazard class(es)	6.1	6.1	6.1
Classification	T5	T5	T5
Danger number	60	60	60
Hazard Label(s)			
14.4 Packing group	III	III	III
14.5 Environmental hazards			
14.6 Special precautions for user	E1	E1	E1
14.7 Maritime transport in bulk according to IMO instruments	2/(E)	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



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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**

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H272 May intensify fire; oxidiser.

Precautionary statements

P264 Wash your hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P301+P330+P310 IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician.



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**FORMULAFORTE 1620
SUPER HARD****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.

