

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



ELIX ABS Powder

Material number ELIX003

Version: 14.1
Replaces version: 14.0

Revision date: 4/11/2023
Date of print: 6/14/2024

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Language: en-US

1. Product and company identification

Product identifier

Trade name: ELIX ABS Powder

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

General use: Intermediate for the production of plastic
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: ELIX Polymers, S.L.
Street/POB-No.: Polígono Industrial
Ctra. de Vilaseca - La Pineda
Postal Code, city: 43006 Tarragona, Spain
Spain
WWW: www.elix-polymers.com
E-mail: info@elix-polymers.com
Telephone: +34-977-835400

Department responsible for information:
Telephone: +34-977-835476, E-mail infomsds@elix-polymers.com

Additional information: This safety data sheet pertains to all the products listed in chapter 16.

Emergency phone number

Telephone: +1 760 476 3961

2. Hazards identification

Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: solid
Form: powder
Color: colorless up to light yellow

Odor: characteristic

Classification: Carcinogenicity - Category 2.

Hazard symbols:



Signal word:

Warning

Hazard statements: Suspected of causing cancer.

Precautionary statements:

Obtain special instructions before use.
Wear protective gloves/protective clothing/eye protection.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point.

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Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified

Dust may form explosive mixtures with air.

Dust contact with the eyes can lead to mechanical irritation.

Inhalation of dust may cause irritation of the respiratory system.

Under the recommended processing conditions small amounts of emitted substance (e.g. residual monomers, residual solvents, decomposition products) may be discharged. In succession of overheating during the melting process potentially substances are released, which are considered as harmful and carcinogen. The maximum workplace exposure limits are, where necessary, listed in section 8.

The melted product can cause severe burns.

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Acrylonitrile-butadiene-styrene copolymer

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 100-42-5	Styrene	< 0.2 %	Flammable Liquid - Category 3. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Carcinogenicity - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Specific Target Organ Toxicity (Repeated Exposure) - Category 1. Aspiration Toxicity - Category 1.

Additional information: Containing silicon oil as additive.
All ingredients of this product are listed on the TSCA inventory.

4. First aid measures

General information: If medical advice is needed, have product container or label at hand. First aider: Pay attention to self-protection!

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. In case of breathing difficulties administer oxygen. If breathing has stopped, give artificial respiration immediately. Seek medical attention.

Following skin contact: After contact with molten product, cool skin area rapidly with cold water. Do not use force or solvents to remove product incrustations from affected skin areas. Cover wounds with sterile dressing. Take off contaminated clothing and wash it before reuse. Seek medical attention.

After eye contact: With eyelids open, wash out eyes for several minutes under flowing water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

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After swallowing: Rinse mouth with water. Drink one or two glasses of water.
Never give an unconscious person anything through the mouth. seek medical attention

Most important symptoms/effects, acute and delayed

Dust: Skin irritation, eye irritations and redness

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

Not applicable

Auto-ignition temperature: No data available

Suitable extinguishing media:

Water spray jet, foam, dry extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

Dust may form explosive mixtures with air.

In case of fire may be liberated: Nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus.

Additional information:

Seal off endangered area. Remove persons to safety.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

6. Accidental release measures

Personal precautions:

Avoid exposure. Keep the molten mass away from the eyes and the skin.

Where there is a risk of exothermal decomposition as a result of overheating (rise in temperature, formation of fumes or smoke) cool the melt in a water bath. Do not breathe vapors. Provide adequate ventilation.

Provide a conveniently located respiratory protective device. Avoid dust formation. Do not breathe dust. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Environmental precautions:

Avoid release to the environment.

Methods for clean-up:

Take up mechanically. Avoid generation of dust.

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7. Handling and storage

Handling

Advices on safe handling: Obtain special instructions before use. Make sure there is sufficient air exchange and / or that working rooms are air suctioned.

Do not breathe dust. Vent dust from the work area.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

In case of melting: To avoid thermal decomposition, do not overheat.

Avoid exceeding WEL threshold levels. Do not breathe vapors.

After work, wash hands and face. Safety shower and eye wash station should be easily accessible to the work area.

Precautions against fire and explosion:

Dust explosive. Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges. Use grounding equipment.

Dust explosion risk:

Class St 2

strong dust explosive (Geigy)

Storage

Requirements for storerooms and containers:

Keep container dry. Store only in original container.

Protect against heat /sun rays.

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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
	ELIX ABS Powder	USA: ACGIH: TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
		USA: ACGIH: TWA	3 mg/m ³ (Dust limit value, respirable fraction)
		USA: OSHA: TWA	15 mg/m ³ (Dust limit value, total dust)
		USA: OSHA: TWA	5 mg/m ³ (Dust limit value, respirable fraction)
100-41-4	Ethylbenzene	USA: ACGIH: TWA	87 mg/m ³ ; 20 ppm
		USA: IDLH: TWA	800 ppm [10% LEL]
		USA: NIOSH: STEL	545 mg/m ³ ; 125 ppm
		USA: NIOSH: TWA	435 mg/m ³ ; 100 ppm
		USA: OSHA: TWA	435 mg/m ³ ; 100 ppm
100-42-5	Styrene	USA: ACGIH: STEL	20 ppm
		USA: ACGIH: TWA	10 ppm
		USA: IDLH: TWA	700 ppm
		USA: NIOSH: STEL	425 mg/m ³ ; 100 ppm
		USA: NIOSH: TWA	215 mg/m ³ ; 50 ppm
		USA: OSHA: Ceiling	200 ppm
		USA: OSHA: TWA	100 ppm
107-13-1	Acrylonitrile	USA: ACGIH: TWA	4.3 mg/m ³ ; 2 ppm (may be absorbed through the skin)
		USA: IDLH: TWA	60 ppm
		USA: NIOSH: Ceiling	10 ppm (may be absorbed through the skin)
		USA: NIOSH: TWA	1 ppm (may be absorbed through the skin)
		USA: OSHA: Ceiling	10 ppm (may be absorbed through the skin)
		USA: OSHA: TWA	1 ppm (may be absorbed through the skin)
		USA: OSHA: TWA	2 ppm (may be absorbed through the skin)
106-99-0	1,3-Butadiene	USA: ACGIH: TWA	4.4 mg/m ³ ; 2 ppm
		USA: OSHA: STEL	11 mg/m ³ ; 5 ppm
		USA: OSHA: TWA	2.21 mg/m ³ ; 1 ppm
100-40-3	4-Vinylcyclohexene	USA: ACGIH: TWA	0.44 mg/m ³ ; 0.1 ppm

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Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
100-41-4	Ethylbenzene	USA: ACGIH-BEI, urine	0.15 g/g creatinine	Sum of mandelic acid and phenylglyoxylic acid in urine	end of shift at end of work week
100-42-5	Styrene	USA: ACGIH-BEI, urine	150 mg/g creatinine	Mandelic acid + Phenylglyoxylic acid	end of exposure or end of shift
		USA: ACGIH-BEI, urine	20 µg/L	Styrene in urine	end of exposure or end of shift
106-99-0	1,3-Butadiene	USA: ACGIH-BEI, blood	2.5 pmol/g Hb	Mixture of N-1 and N2-(hydroxybutenyl)valine hemoglobin (Hb) adducts	no restriction
		USA: ACGIH-BEI, urine	2.5 mg/L	1,2 Dihydroxy-4-(N- acetylcysteinyl)-butane	end of exposure or end of shift

Additional information:

Information about acrylonitrile and butadiene: carcinogenic effect.

Additional protective measures:

- Measurements for the early detection of increased exposure as a result of an unforeseen incident;
- The danger areas must be delimited and identified using relevant warning and safety signs. Smoking is forbidden.
- The exhaust air must only be let back to the working area after sufficient cleaning using approved equipment.

Please observe generally defined limit for dust:

OSHA-TWA USA: 15 mg/m³ (total dust)

OSHA-TWA USA: 5 mg/m³ (respirable fraction)

Engineering controls

In case of melting:

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.
In case of dust formation: Overall.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber - Layer thickness. 0.11 mm.

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

In case of melting: Impervious heat protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Leather

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Use filter type A-P2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

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General hygiene considerations:

Obtain special instructions before use. Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing prior to re-use.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.
Safety shower and eye wash station should be easily accessible to the work area.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: solid Form: powder Color: colorless up to light yellow
Odor:	characteristic
Odor threshold:	No data available
pH:	Not applicable
Melting point/freezing point:	(Softening temperature) 95 - 105 °C
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	165 °C
Explosive properties:	strong dust explosive (Class 2) (Geigy)
Ignition temperature:	>300 °C
Bulk density:	230 - 390 kg/m ³

10. Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Product is stable under normal storage conditions.

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Possibility of hazardous reactions:

In case of dust formation (Fine dust): Dust may form explosive mixtures with air.

Conditions to avoid: Heating (Decomposition).

Incompatible materials: No data available

Thermal decomposition: 165 °C

11. Toxicological information

Toxicological tests

Toxicological effects: Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Inhalation of dust may cause irritation of the respiratory system.
Skin corrosion/irritation: Lack of data.
Serious eye damage/irritation: Lack of data.
Dust contact with the eyes can lead to mechanical irritation.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Carcinogenicity -
Category 2 = Suspected of causing cancer. Suspected of causing cancer.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.

Other information: Under the recommended processing conditions small amounts of emitted substance (e.g. residual monomers, residual solvents, decomposition products) may be discharged. In succession of overheating during the melting process potentially substances are released, which are considered as harmful and carcinogen.

Symptoms

Dust:
Can cause skin, eye and respiratory tract irritation.
The melted product can cause severe burns.
Thermal treatment, Processing:
Can cause skin, eye and respiratory tract irritation.

12. Ecological information

Ecotoxicity

Further details: No data available

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Mobility in soil

No data available

Persistence and degradability

Further details: Product is not readily biodegradable.
Due to the consistency along with the low water solubility of the product a bioavailability is unlikely.

Additional ecological information

General information: Discharge into the environment must be avoided.

13. Disposal considerations

Product

Recommendation: Recycling or special waste incineration.
After appropriate treatment the product can be remelted and reprocessed into new moulded articles. Mechanical recycling is only possible if the material has been selectively retrieved and carefully segregated according to type.

Package

Recommendation: Non-contaminated packages may be recycled. If recycling is not practicable, dispose of in compliance with local regulations.

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:
not applicable

UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
Not restricted

Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:
not applicable

Packing group

ADR/RID, IMDG, IATA-DGR:
not applicable

Environmental hazards

Marine pollutant: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

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USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name:: Not restricted

Marine pollutant: no

Air transport (IATA)

Proper shipping name:: Not restricted

Further information

No dangerous good in sense of these transport regulations.

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15. Regulatory information

National regulations - U.S. Federal Regulations

Ethylbenzene:

TSCA Inventory: listed

Carcinogen Status:

IARC Rating: Group 2B

OSHA Carcinogen: not listed

NTP Rating: not listed

Clean Air Act:

CAA Hazardous Air Pollutants: yes

CAA SOCM I Chemical: yes

Clean Water Act:

CWA Hazardous Substances: RQ 1000 lbs.

CWA Priority Pollutants: yes

Other Environmental Laws:

CERCLA: RQ 1000 lbs.

RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 2, 5

SARA Title III - Section 313, Toxic Release: Conc. 1.0% / Threshold Standard

NIOSH Recommendations:

Occupational Health Guideline: 0264*

Styrene:

TSCA Inventory: listed

Carcinogen Status:

IARC Rating: Group 2A

OSHA Carcinogen: not listed

NTP Rating: listed

Clean Air Act:

CAA Hazardous Air Pollutants: yes

CAA SOCM I Chemical: yes

Clean Water Act:

CWA Hazardous Substances: RQ 1000 lbs.

Other Environmental Laws:

CERCLA: RQ 1000 lbs.

RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 1, 5

SARA Title III - Section 313, Toxic Release: Conc. 0.1% / Threshold Standard

NIOSH Recommendations:

Occupational Health Guideline: 0571

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Acrylonitrile:

TSCA Inventory: listed; EPA flags TP

Carcinogen Status:

IARC Rating: Group 2B
OSHA Carcinogen: listed
NTP Rating: listed

Clean Air Act:

CAA Accidental Release Prevention: Threshold 20000 lbs. / Basis for listing = b

CAA Hazardous Air Pollutants: yes
CAA SOCM Chemical: yes

Clean Water Act:

CWA Hazardous Substances: RQ 100 lbs.
CWA Priority Pollutants: yes

Other Environmental Laws:

CERCLA: RQ 100 lbs.
RCRA Hazardous Wastes: Code U009
RCRA Groundwater Monitoring: Methods 8030, 8240 / PQL 5, 5
SARA Title III, Section 302, EHS: TPQ 10000 lbs. / RQ 100 lbs.
SARA Title III - Section 313, Toxic Release: Conc. 0.1% / Threshold Standard

NIOSH Recommendations:

Occupational Health Guideline: 0014

1,3-Butadiene:

TSCA Inventory: listed

Carcinogen Status:

IARC Rating: Group 1
OSHA Carcinogen: listed
NTP Rating: listed

Clean Air Act:

CAA Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f
CAA Hazardous Air Pollutants: yes
CAA SOCM Chemical: yes

Other Environmental Laws:

CERCLA: RQ 10 lbs.
SARA Title III - Section 313, Toxic Release: Conc. 0.1% / Threshold Standard

NIOSH Recommendations:

Occupational Health Guideline: 0067

4-Vinylcyclohexene:

TSCA Inventory: listed

Carcinogen Status:

IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: not listed

Clean Air Act:

CAA SOCM Chemical: yes

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National regulations - U.S. State Regulations

Ethylbenzene:	California Proposition 65: cancer California Proposition 65 code: C Delaware Air Quality Management List: DRQ: 1000 RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585 -- AAC: 21.75 -- EL: 29 -- WEL: 435 Title 586 - Massachusetts Haz. Substance codes: 2,4,5,6 F7 F8 F9 Minnesota Haz. Substance: Codes: AO -- Ratings: 8.95 -- Status: Air Pollutant. Title III. TRI. Water Pollutant. New Jersey RTK Hazardous Substance: DOT 1175 - Sub No.: 0851 - TPQ: - New York List of Hazardous Substances: RQ -- Air: 1000 - RQ-Land: 1 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E Washington Air Contaminant: TWA: 100 ppm - 435 mg, STEL: 125 ppm - 545 mg
Styrene:	California Proposition 65: cancer Delaware Air Quality Management List: DRQ: 1000 - RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585 -- AAC: 1 -- EL: 6.67 -- WEL: - Title 586 - Maine Hazardous Air Pollutants: Me 2005: HAP - Hap Rpt: 2000 Massachusetts Haz. Substance codes: 1,2,4,5,6,9 *E*C* F7 F8 Michigan Critical Material: Note: 2 - CMR#: 27 - Parameter#: 00100-42-5 - Annual Usage Parameter: 100 Minnesota Haz. Substance: Codes: ANO -- Ratings: 9.63 -- Status: Air Pollutant. Carcinogen. Title III. TRI. New Jersey RTK Hazardous Substance: DOT 2055 - Sub No.: 1748 - TPQ: - New York List of Hazardous Substances: RQ -- Air: 1000 - RQ -- Land: 1 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E Washington Air Contaminant: TWA: 50 ppm / 215 mg -- STEL: 100 ppm / 425 mg
Acrylonitrile:	California Proposition 65: cancer
1,3-Butadiene:	California Proposition 65: developmental, female, male
4-Vinylcyclohexene:	California Proposition 65: female

National regulations - Canada

Ethylbenzene:	DSL: listed
Styrene:	DSL: listed
Acrylonitrile:	DSL: listed
1,3-Butadiene:	DSL: listed
4-Vinylcyclohexene:	DSL: listed

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National regulations - Great Britain

Hazchem-Code: -

16. Other information

This safety data sheet pertains to the following products:

ELIX 158I

Contains < 0.2 % Styrene. Safety data sheet available on request.

Text for labeling:

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight) - Chronic effects

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	*	1
FLAMMABILITY		1
PHYSICAL HAZARD		0
X		

Abbreviations and acronyms:

Acute Toxicity: Acute toxicity
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
AS/NZS: Australian Standards/New Zealand Standards
Aspiration Toxicity: Aspiration toxicity
Carcinogenicity: Carcinogenicity
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EN: European Standard
EQ: Excepted quantities
Eye Irritation: Eye irritation
Flammable Liquid: Flammable liquid
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irritation: Skin irritation
STOT RE: Specific target organ toxicity - repeated exposure
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
TSCA: Toxic Substance Control Act
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Reason of change: Changes in section 1: emergency phone number

Date of first version: 12/30/2009

Department issuing data sheet

Contact person: see section 1: Department responsible for information

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The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

