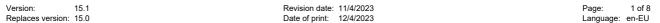
according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

ELIX ABS Powder

Material number ELIX003



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

1.1 Product identifier

Trade name: ELIX ABS Powder

1.2 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.

1.3 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

43006 Tarragona, Spain

Spain

www.elix-polymers.com
E-mail: info@elix-polymers.com

Telephone: +34-977-835400

Department responsible for information:

Postal Code city:

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.

1.4 Emergency telephone number

Telephone: +1 760 476 3961

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

2.3 Other hazards

May form explosible dust-air mixture if dispersed..

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.

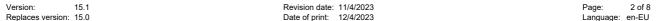
Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

ELIX ABS Powder

Material number ELIX003



SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Acrylonitrile-butadiene-styrene copolymer

SECTION 4: First aid measures

4.1 Description of first aid measures

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 with sterile dressing material to protect against infection. 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 opthalmologist.

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

4.2 Most important symptoms and effects, both acute and delayed

Dust: Skin irritation, eye irritations and redness

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, foam, dry extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

May form explosible dust-air mixture if dispersed..

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

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus.

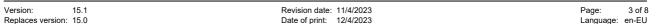
Additional information: Seal off endangered area. Remove persons to safety.

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

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

ELIX ABS Powder

Material number ELIX003



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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 vapours. 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.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Avoid generation of dust.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: 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. 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 vapours.

After work, wash hands and face.

Precautions against fire and explosion:

May form explosible dust-air mixture if dispersed.. Keep away from sources of ignition - No

smoking.

Take precautionary measures against static discharges. Use grounding equipment.

Dust explosion risk: Class2

strong dust explosive (Geigy)

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container dry. Store only in original container.

Protect against heat /sun rays.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

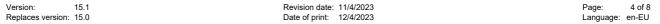
7.3 Specific end use(s)

No information available.

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

ELIX ABS Powder

Material number ELIX003



SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
100-41-4	Ethylbenzene	Europe: IOELV: STEL Europe: IOELV: TWA	884 mg/m³; 200 ppm (may be absorbed through the skin) 442 mg/m³; 100 ppm (may be absorbed through the skin)
106-99-0	1,3-Butadiene	Europe: BOELV: TWA	2.2 mg/m³; 1 ppm

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.

8.2 Exposure controls

In case of melting:

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

Personal protection equipment

Occupational exposure controls

Respiratory protection: In case of dust formation: Particulates filter P1 according to EN 143.

Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A (= against vapours of organic substances) according to BS EN 14387.

Hand protection: Protective gloves according to EN 374.

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 EN 407.

Glove material: Leather

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

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

In case of dust formation: Overall.

General protection and hygiene measures:

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.

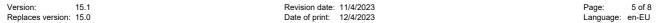
Environmental exposure controls

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.

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

ELIX ABS Powder

Material number ELIX003



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa solid

Form: powder

Colour: colourless up to light yellow

Odour: characteristic
Odour threshold: No data available

Melting point/freezing point: (Softening temperature: 95 - 105 °C)

Initial boiling point and boiling range:

Flammability:

Upper/lower flammability or explosive limits:

Flash point/flash point range:

Auto-ignition temperature:

Decomposition temperature:

No data available

pH: Not applicable
Viscosity, kinematic: No data available
Water solubility: insoluble (-)
Partition coefficient: n-octanol/water: No data available
Vapour pressure: No data available
Density: No data available
Vapour density: No data available
Particle characteristics: No data available

9.2 Other information

Explosive properties: strong dust explosive (Class 2)

Oxidizing characteristics: No data available

Auto-ignition temperature:

Bulk density:

230 - 390 kg/m³ (-)

Evaporation rate:

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

exothermic reactions

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed..

10.4 Conditions to avoid

heating (Decomposition).

10.5 Incompatible materials

none

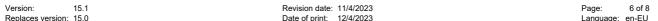
10.6 Hazardous decomposition products

Thermal decomposition: 165 °C

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

ELIX ABS Powder

Material number ELIX003



SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects: The statements

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

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. Inhalation of dust may cause irritation of the

respiratory system.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

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.

11.2 Information on other hazards

Endocrine disrupting properties: No data available

Other information: There are no known health risks.

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.

SECTION 12: Ecological information

12.1 Toxicity

Further details: No data available

12.2 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.

12.3 Bioaccumulative potential

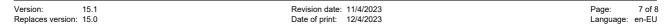
Partition coefficient: n-octanol/water:

No data available

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

ELIX ABS Powder

Material number ELIX003



12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information: Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 07 02 13 = Waste plastic

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.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID. ADN. IMDG. IATA-DGR:

not applicable

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:

Not restricted

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous

according to the criteria of the UN model regulations.

Marine pollutant - IMDG: no

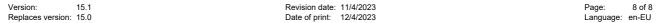
14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

ELIX ABS Powder

Material number ELIX003



14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

National regulations - EC member states

Further regulations, limitations and legal requirements:

No data available

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information

This safety data sheet pertains to the following products:

ELIX 152I ELIX 158I

Reason of change Changes in section 1: emergency phone number

Date of first version: 30/12/2009

Department issuing data sheet: see section 1: Department responsible for information

Abbreviations and acronyms: 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

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 EU: European Union

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

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

TLV: Threshold Limit Value

TRGS: Technical Rules for Hazardous Substances vPvB: Very persistent and very bioaccumulative

WEL: Workplace Exposure Limit

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