



# SAFETY DATA SHEET

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

## ELIX ABS pellets (SMI modified)

Material number ELIX034

Revision date: 15/4/2025  
Version: 9.0  
Replaces version: 8.4  
Language: en-EU  
Date of print: 24/4/2025

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

### 1.1 Product identifier

Trade name: ELIX ABS pellets (SMI modified)

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

General use: For the production of moulded plastic articles  
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  
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 info@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

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



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### SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

#### 3.2 Mixtures

Chemical characterisation: A blend of polymers based on acrylonitrile butadiene styrene modified with Styrene-Maleic anhydride N-phenylmaleimide copolymer

Additional information: The product does not contain dangerous substances above limits that need to be mentioned in this section according to applicable legislation.  
The maximum workplace exposure limits are, where necessary, listed in section 8.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

In case of inhalation: In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. 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: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

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

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

#### 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

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide.



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### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus. Suitable protective clothing.

Additional information:

Seal off endangered area. Remove persons to safety.

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

## 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. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Provide adequate ventilation. Provide a conveniently located respiratory protective device.

### 6.2 Environmental precautions

Avoid release to the environment.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically.

Additional information:

Granulate: Special danger of slipping by leaking/spilling product.

### 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:

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

Make sure there is sufficient air exchange and / or that working rooms are air suctioned.

Avoid exceeding WEL threshold levels. Do not breathe vapours. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

After work, wash hands and face.

For mechanical processing:

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

Avoid dust formation during reggranulation. Safety shower and eye wash station should be easily accessible to the work area.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container dry. Store only in original container.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

Do not store together with: strong acids, Alkalies, oxidizing agents

### 7.3 Specific end use(s)

No information available.



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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
100-41-4	Ethylbenzene	Europe: IOELV: STEL	884 mg/m <sup>3</sup> ; 200 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	442 mg/m <sup>3</sup> ; 100 ppm (may be absorbed through the skin)
106-99-0	1,3-Butadiene	Europe: BOELV: TWA	2.2 mg/m <sup>3</sup> ; 1 ppm
62-53-3	Aniline	Europe: IOELV: STEL	19.35 mg/m <sup>3</sup> ; 5 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	7.74 mg/m <sup>3</sup> ; 2 ppm (may be absorbed through the skin)

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
62-53-3	Aniline	Europe: BLV, urine	30 mg/g	p-aminophenol	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.

### 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:

Respiratory protection must be worn whenever the WEL levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection:

Protective gloves according to EN ISO 374-1.

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 ISO 16321-1.



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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.

## 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
Colour:	Form: granulate varying, depends on colouring
Odour:	characteristic
Melting point/freezing point:	(Softening temperature 100 - 115 °C)
Boiling point:	No data available
Flammability:	No data available
Lower and upper explosion limit:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	> 300 °C
Decomposition temperature:	> 300 °C
pH:	Not applicable
Kinematic viscosity:	Not applicable
Water solubility:	insoluble
Partition coefficient n-octanol/water (log value):	No data available
Vapour pressure:	No data available
Density:	No data available
Relative vapour density:	Not applicable
Particle characteristics:	No data available

### 9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Bulk density:	1.01 - 1.05 g/cc



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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

### 10.4 Conditions to avoid

Heating (Decomposition).

### 10.5 Incompatible materials

Strong acids, Alkalis, strong oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: > 300 °C

## SECTION 11: Toxicological information

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

Toxicological effects:

- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Lack of data.
- Serious eye damage/irritation: Lack of data.
- 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.



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## 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

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

### 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



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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.

### 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





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### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

This safety data sheet pertains to the following products:

ELIX ABS E-LOOP H605 MR  
ELIX ABS HH 3105  
ELIX ABS HH 3110  
ELIX ABS HH 3114  
ELIX ABS HH P2HE LNS003  
ELIX ABS HH P2MC  
ELIX ABS HH P2HE

Reason of change: Changes in section 1: E-mail

Date of first version: 28/7/2014

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  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
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  
IMO: International Maritime Organization  
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.