



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 27/2/2018
Version: 6
Language: en-GB,IE
Date of print: 23/4/2018

ELIX ABS pellets (SMI modified)

Material number ELIX034

Page: 1 of 9

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

Dept. 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.

1.4 Emergency telephone number

3E Poison & Exposure Program,
Telephone: +44 (0) 20 3514 748 Access Code 334373

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.

Results of PBT and vPvB assessment:
No data available



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 27/2/2018
Version: 6
Language: en-GB,IE
Date of print: 23/4/2018

ELIX ABS pellets (SMI modified)

Material number ELIX034

Page: 2 of 9

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: Preparation 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

General information: Immediately remove any contaminated clothing, shoes or stockings.

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 with sterile dressing material to protect against infection. Take off immediately all 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.

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus. Suitable protective clothing.



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 27/2/2018
Version: 6
Language: en-GB,IE
Date of print: 23/4/2018

ELIX ABS pellets (SMI modified)

Material number ELIX034

Page: 3 of 9

Additional information: Hazchem-Code: -
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 immediately all 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 immediately all 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 regrainulation. 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.

7.3 Specific end use(s)

No information available.



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 27/2/2018

Version: 6

Language: en-GB,IE

Date of print: 23/4/2018

ELIX ABS pellets (SMI modified)

Material number ELIX034

Page:

4 of 9

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 ³ ; 200 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	442 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Great Britain: WEL-STEL	552 mg/m ³ ; 125 ppm (may be absorbed through the skin)
		Great Britain: WEL-TWA	441 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Ireland: 15 minutes	884 mg/m ³ ; 200 ppm (may be absorbed through the skin)
		Ireland: 8 hours	442 mg/m ³ ; 100 ppm (may be absorbed through the skin)
100-42-5	Styrene	Great Britain: WEL-STEL	1080 mg/m ³ ; 250 ppm
		Great Britain: WEL-TWA	430 mg/m ³ ; 100 ppm
		Ireland: 15 minutes	170 mg/m ³ ; 40 ppm
		Ireland: 8 hours	85 mg/m ³ ; 20 ppm
107-13-1	Acrylonitrile	Great Britain: WEL-TWA	4.4 mg/m ³ ; 2 ppm
		Ireland: 8 hours	4.5 mg/m ³ ; 2 ppm (may be absorbed through the skin)
106-99-0	1,3-Butadiene	Europe: BOELV: TWA	2.2 mg/m ³ ; 1 ppm
		Great Britain: WEL-TWA	22 mg/m ³ ; 10 ppm (Carc)
		Ireland: 8 hours	2.2 mg/m ³ ; 1 ppm C1, Mut2
62-53-3	Aniline	Great Britain: WEL-TWA	4 mg/m ³ ; 1 ppm
		Ireland: 8 hours	3.8 mg/m ³ ; 1 ppm

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.



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 27/2/2018
Version: 6
Language: en-GB,IE
Date of print: 23/4/2018

ELIX ABS pellets (SMI modified)

Material number ELIX034

Page: 5 of 9

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 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 immediately all 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

Appearance:	Physical state at 20 °C and 101.3 kPa: solid Form: granulate Colour: varying, depends on colouring
Odour:	characteristic
Odour threshold:	No data available
pH value:	not applicable
Melting point/freezing point:	(Softening temperature 100 - 115 °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
Vapour pressure:	No data available
Vapour density:	No data available
Density:	No data available
Water solubility:	insoluble



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 27/2/2018
Version: 6
Language: en-GB,IE
Date of print: 23/4/2018

ELIX ABS pellets (SMI modified)

Material number ELIX034

Page: 6 of 9

Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	> 300 °C
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing characteristics:	No data available

9.2 Other information

Ignition temperature:	> 300 °C
Bulk density:	1.01 - 1.05 g/cc

SECTION 10: Stability and reactivity

10.1 Reactivity

refer to 10.3

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

In case of fire may be liberated:

Aniline, styrene monomer, nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

Thermal decomposition: > 300 °C



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 27/2/2018
Version: 6
Language: en-GB,IE
Date of print: 23/4/2018

ELIX ABS pellets (SMI modified)

Material number ELIX034

Page: 7 of 9

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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.

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



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 27/2/2018
Version: 6
Language: en-GB,IE
Date of print: 23/4/2018

ELIX ABS pellets (SMI modified)

Material number ELIX034

Page: 8 of 9

12.6 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.

Contaminated packaging

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

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

14.2 UN proper shipping name

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

14.3 Transport hazard class(es)

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

14.4 Packing group

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

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 27/2/2018
Version: 6
Language: en-GB,IE
Date of print: 23/4/2018

ELIX ABS pellets (SMI modified)

Material number ELIX034

Page: 9 of 9

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: -
No data available

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

This safety data sheet pertains to the following products:

ELIX ABS HH 3105
ELIX ABS HH 3110
ELIX ABS HH 3114
ELIX ABS HH P2HE LNS003
ELIX ABS HH P2MC

Reason of change: Changes in section 15: Regulatory information
General revision

Date of first version: 28/7/2014

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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.