

**Elan-tech® EC 147**

Version 1.1 SDB\_GB

Revision Date 04.01.2013

Print Date 08.06.2013

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name : Elan-tech® EC 147

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

Use of the Substance/Mixture : Casting Resin

**1.3 Details of the supplier of the safety data sheet**

Company : ELANTAS Italia S.r.l.  
Strada Antolini 1  
43044 Collecchio  
Italy  
Telephone : +3907363081  
Telefax : +390736402746  
E-mail address : msds.elantas.italia@altana.com

**1.4 Emergency telephone number**

+39 (0)736 3081 (8-17 h)

**2. Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (67/548/EEC, 1999/45/EC)**

Sensitising	R43: May cause sensitization by skin contact.
Irritant	R36/38: Irritating to eyes and skin.
Dangerous for the environment	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

**Labelling according to EC Directives (1999/45/EC)**

Hazard pictograms :



Irritant



Dangerous  
for the  
environment

R-phrases) : R36/38 Irritating to eyes and skin.  
R43 May cause sensitization by skin contact.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Elan-tech® EC 147**

Version 1.1 SDB\_GB

Revision Date 04.01.2013

Print Date 08.06.2013

S-phrase(s)	: S24 S26  S37 S57  S60	Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves. Use appropriate container to avoid environmental contamination. This material and its container must be disposed of as hazardous waste.
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Hazardous components which must be listed on the label:

- 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)
- 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl]derivs
- 30499-70-8 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with (chloromethyl)oxirane

**3. Composition/information on ingredients**

**3.2 Mixtures**

Chemical nature : Modified epoxy resin

**Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6 01- 2119456619- 26	Xi; R36/38 R43 N; R51-R53	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 50 - <= 100
oxirane, mono[(C12-14-alkyloxy)methyl]derivs	68609-97-2 271-846-8	Xi; R38 R43	Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 12,5 - < 20
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with (chloromethyl)oxirane	30499-70-8	Xi; R36/38 R43	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 10 - < 12,5
benzyl alcohol	100-51-6 202-859-9	Xn; R20/22	Acute Tox. 4; H332 Acute Tox. 4; H302	>= 1 - < 3

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

**4. First aid measures**

**4.1 Description of first aid measures**

**Elan-tech® EC 147**

Version 1.1 SDB\_GB

Revision Date 04.01.2013

Print Date 08.06.2013

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- General advice : Do not leave the victim unattended.
- If inhaled : If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Do not wash off with:  
Cleansing agents, acidic.  
Do NOT use solvents or thinners.  
Before washing use a dry brush to remove dust from skin.
- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
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## 5. Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Foam

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Burning produces irritant fumes.

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.
- Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Refer to protective measures listed in sections 7 and 8.  
Evacuate personnel to safe areas.  
Use personal protective equipment.

### 6.2 Environmental precautions

- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.

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

- Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
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**Elan-tech® EC 147**

Version 1.1 SDB\_GB

Revision Date 04.01.2013

Print Date 08.06.2013

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Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

Only qualified personnel equipped with suitable protective equipment may intervene.

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**7. Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : No materials to be especially mentioned.

Other data : No decomposition if stored and applied as directed.

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**8. Exposure controls/personal protection**

**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls**

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

Protective measures : Wear full protective clothing and self-contained breathing apparatus.

**Environmental exposure controls**

General advice : If the product contaminates rivers and lakes or drains inform

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**Elan-tech® EC 147**

Version 1.1 SDB\_GB

Revision Date 04.01.2013

Print Date 08.06.2013

respective authorities.

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: light yellow
Odour	: slight
Flash point	: 150 °C
	: > 200 °C
Density	: 1,15 g/cm <sup>3</sup> at 25 °C
Viscosity, dynamic	: 450 - 650 mPa.s at 25 °C

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## 10. Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

### 10.3 Possibility of hazardous reactions

Hazardous reactions	: Stable under recommended storage conditions., No hazards to be specially mentioned.
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### 10.4 Conditions to avoid

Conditions to avoid	: no data available
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### 10.5 Incompatible materials

Materials to avoid	: Incompatible with oxidizing agents.
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### 10.6 Hazardous decomposition products

Hazardous decomposition products	: This product may release the following: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Stable under normal conditions.
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## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Elan-tech® EC 147**

Version 1.1 SDB\_GB

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Acute oral toxicity : no data available

**Skin corrosion/irritation**

Skin irritation : no data available

**Serious eye damage/eye irritation**

Eye irritation : no data available

**Respiratory or skin sensitization**

Sensitisation : no data available

**Target Organ Systemic Toxicant - Repeated exposure**

: no data available

**Further information** : no data available

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**12. Ecological information**

**12.1 Toxicity**

Toxicity to fish :  
no data available

Toxicity to daphnia and other  
aquatic invertebrates : no data available

**12.2 Persistence and degradability**

Biodegradability : no data available

**12.3 Bioaccumulative potential**

Bioaccumulation : no data available

**12.4 Mobility in soil**

**12.5 Results of PBT and vPvB assessment**

**12.6 Other adverse effects**

Additional ecological  
information : no data available

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**13. Disposal considerations**

**13.1 Waste treatment methods**

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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Version 1.1 SDB\_GB

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**14. Transport information**

**Land transport**

*ADR / RID:*

Class: 9  
Packaging group: III  
UN number: 3082  
ADR/RID-Labels: 9  
Description of the goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Epoxy resin)

**Sea transport**

*IMDG:*

Class: 9  
Packaging group: III  
UN number: 3082  
Labels: 9  
EmS: F-A S-F  
Description of the goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Epoxy resin)  
Marine Pollutant

**Air transport**

*IATA-DGR :*

Class: 9  
Packaging group: III  
UN/ID No.: UN 3082  
Labels: 9  
Description of the goods: Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

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**15. Regulatory information**

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

Major Accident Hazard : 96/82/EC Update: 2003  
Legislation Dangerous for the environment  
9b  
Quantity 1: 200 t  
Quantity 2: 500 t

**15.2 Chemical Safety Assessment**

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**16. Other information**

Full text of R-phrases referred to under sections 2 and 3

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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R20/22	Harmful by inhalation and if swallowed.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R51	Toxic to aquatic organisms.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.

### Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.