

**Elan-tech® W 557**

Version 1.1 SDB\_GB

Revision Date 04.01.2013

Print Date 05.09.2013

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

**1.1 Product identifier**

Trade name : Elan-tech® W 557

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

Use of the Substance/Mixture : Epoxy Hardener

**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)**

Corrosive	R34: Causes burns.
Sensitising	R43: May cause sensitization by skin contact.
Dangerous for the environment	R50/53: Very 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 :



Corrosive



Dangerous  
for the  
environment

R-phrases) : R34 Causes burns.  
R43 May cause sensitization by skin contact.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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S-phrases(s)	:	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
		S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
		S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
		S57	Use appropriate container to avoid environmental contamination.
		S60	This material and its container must be disposed of as hazardous waste.

Hazardous components which must be listed on the label:

- 4067-16-7                      3,6,9,12-tetra-azatetradecamethylenediamine
- 616-47-7                        1-methylimidazole

**3. Composition/information on ingredients**

**3.2 Mixtures**

Chemical nature                                      : Aliphatic Amine

**Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
3,6,9,12-tetra- azatetradecamethylene diamine	4067-16-7 223-775-9	C; R34 R43 N; R50-R53	Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 50 - <= 100
1-methylimidazole	616-47-7 210-484-7 01- 2119533030- 60	C; R34 Xn; R21/22	Acute Tox. 4; H302 Skin Corr. 1B; H314 Acute Tox. 3; H311	>= 5 - < 7

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**

General advice                                      : Do not leave the victim unattended.

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- 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.  
Before washing use a dry brush to remove dust from skin.  
Cool melted product on skin with plenty of water. Do not remove solidified product.
- 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 : Water  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

### 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 : 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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Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

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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**

**Engineering measures**

Recommended minimum velocity for exhaust ventilation

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

**Environmental exposure controls**

General advice : If the product contaminates rivers and lakes or drains inform 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	: ammoniacal
Flash point	: 150 °C
	: > 200 °C
Density	: 1,02 g/cm <sup>3</sup> at 25 °C
Viscosity, dynamic	: 70 - 150 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	: Toxic gases may be released if in contact with the following: Azo-compounds Halogenated compounds Ammonia
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**10.6 Hazardous decomposition products**

Hazardous decomposition products	: Stable under normal conditions. Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.
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**11. Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

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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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**14. Transport information**

**Land transport**

*ADR / RID:*

Class: 8  
Packaging group: III  
UN number: 2735  
ADR/RID-Labels: 8  
Description of the goods: AMINES, LIQUID, CORROSIVE, N.O.S. (Pentaethylenehexamine)  
ENVIRONMENTALLY HAZARDOUS

**Sea transport**

*IMDG:*

Class: 8  
Packaging group: III  
UN number: 2735  
Labels: 8  
EmS: F-A S-B  
Description of the goods: AMINES, LIQUID, CORROSIVE, N.O.S. (Pentaethylenehexamine)  
Marine Pollutant

**Air transport**

*IATA-DGR :*

Class: 8  
Packaging group: III  
UN/ID No.: UN 2735  
Labels: 8  
Description of the goods: Amines, liquid, corrosive, n.o.s. (Pentaethylenehexamine)

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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  
9a  
Quantity 1: 100 t  
Quantity 2: 200 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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R21/22	Harmful in contact with skin and if swallowed.
R34	Causes burns.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
R50/53	Very 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.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very 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.