

## Elan-tech® AW 91 Orange SLOW

Version 2.0 SDB\_GB

Revision Date 28.08.2013

Print Date 05.09.2013

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

#### 1.1 Product identifier

Trade name : Elan-tech® AW 91 Orange SLOW

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

Use of the Substance/Mixture : Adhesive

#### 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 (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

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

Corrosive	R34: Causes burns.
Harmful	R21/22: Harmful in contact with skin and if swallowed.
Sensitising	R43: May cause sensitisation by skin contact.

#### 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**

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- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

- P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/ physician.

Hazardous components which must be listed on the label:

- 68683-29-4 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated
- 929-59-9 3,6-dioxaoctamethylenediamine
- 140-31-8 2-piperazin-1-ylethylamine

### 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 [%]
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	68683-29-4	Xi; R36/38 R43	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 30 - < 50
3,6-dioxaoctamethylenediamine	929-59-9 213-203-6	Xn; R22 C; R34 Xi; R43	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317	>= 20 - < 25
Trimethylolpropane poly(oxypropylene)tri-amine	39423-51-3	Xn; R21/22 C; R34	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314	>= 12,5 - < 20
Poly[oxy(methyl-1,2-	9046-10-0	Xn; R21/22	Acute Tox. 4; H302	>= 7 - < 10

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ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-		C; R34 N; R52/53 Xn; R65 Xi; R41	Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2 202-013-9 /	Xn; R22 Xi; R36/38	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 5 - < 7
2-piperazin-1-ylethylamine	140-31-8 205-411-0	C; R34 Xn; R21/22 R43 R52-R53	Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 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

- 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.  
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.

## 5. Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water  
Dry powder

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Carbon dioxide (CO<sub>2</sub>)  
Foam

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

Specific hazards during firefighting : Burning produces irritant fumes.  
Cool closed containers exposed to fire with water spray.  
Hazardous decomposition products formed under fire conditions.

### 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).  
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.

Further information on : Protect from moisture.

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storage conditions

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 : orange

Odour : ammoniacal

Flash point : 150 °C

Boiling point/boiling range : > 100 °C

Density : 1 g/cm<sup>3</sup>  
at 25 °C

Viscosity, dynamic : 85.000 - 130.000 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.

**10.4 Conditions to avoid**

Conditions to avoid : no data available

**10.5 Incompatible materials**

Materials to avoid : Strong acids  
Strong oxidizing agents

**10.6 Hazardous decomposition products**

Hazardous decomposition products : nitrogen oxides (NOx)  
Carbon monoxide

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**11. Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

Acute oral toxicity : Acute toxicity estimate: 931,97 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

**Skin corrosion/irritation**

Skin irritation : no data available

**Serious eye damage/eye irritation**

Eye irritation : no data available

**Respiratory or skin sensitisation**

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**

Product : In accordance with local and national regulations.

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. (Polyoxypropylene Diamine)

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### 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. (Polyoxypropylene Diamine)  
Marine pollutant no

### 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. (Polyoxypropylene Diamine)

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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 Directive 96/82/EC does not apply

### 15.2 Chemical Safety Assessment

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## 16. Other information

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

R21/22 Harmful in contact with skin and if swallowed.  
R22 Harmful if swallowed.  
R34 Causes burns.  
R36/38 Irritating to eyes and skin.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitisation by skin contact.  
R52 Harmful to aquatic organisms.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R53 May cause long-term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed.

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



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H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful 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.