

Elan-tech® AW 91 orange

Version 1.1 SDB_GB

Revision Date 04.01.2013

Print Date 16.03.2013

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

1.1 Product identifier

Trade name : Elan-tech® AW 91 orange

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

Use of the Substance/Mixture :

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.
Harmful	R21/22: Harmful in contact with skin and if swallowed.
Sensitising	R43: May cause sensitization by skin contact.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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

Hazard pictograms :



Corrosive

R-phrase(s)	: R21/22	Harmful in contact with skin and if swallowed.
	R34	Causes burns.
	R43	May cause sensitization by skin contact.
S-phrase(s)	: S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Elan-tech® AW 91 orange

Version 1.1 SDB_GB

Revision Date 04.01.2013

Print Date 16.03.2013

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).
S60	This material and its container must be disposed of as hazardous waste.

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-piperaziny)ethyl]amino]butyl-terminated
- 929-59-9 3,6-dioxaoctamethylenediamine
- 39423-51-3 Trimethylolpropane poly(oxypropylene)triamine
- 140-31-8 2-piperazin-1-ylethylamine

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature :

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-piperaziny)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)triamine	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-ethanediy)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	9046-10-0	Xn; R21/22 C; R34 R52/53 Xn; R65 Xi; R41	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 7 - < 10
2,4,6-	90-72-2	Xn; R22	Acute Tox. 4; H302	>= 5 - < 7

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Elan-tech® AW 91 orange

Version 1.1 SDB_GB

Revision Date 04.01.2013

Print Date 16.03.2013

tris(dimethylaminomethyl)phenol	202-013-9 /	Xi; R36/38	Eye Irrit. 2; H319 Skin Irrit. 2; H315	
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
Carbon dioxide (CO₂)

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.

Elan-tech® AW 91 orange

Version 1.1 SDB_GB

Revision Date 04.01.2013

Print Date 16.03.2013

Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

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.

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Elan-tech® AW 91 orange

Version 1.1 SDB_GB

Revision Date 04.01.2013

Print Date 16.03.2013

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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : red
Odour : ammoniacal
Flash point : 150 °C
 : > 100 °C
Density : 1 g/cm³
 at 25 °C
Viscosity, dynamic : 85.000 - 130.000 mPa.s
 at 25 °C

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

Elan-tech® AW 91 orange

Version 1.1 SDB_GB

Revision Date 04.01.2013

Print Date 16.03.2013

10.5 Incompatible materials

Materials to avoid : Toxic gases may be released if in contact with the following:
Azo-compounds
Halogenated compounds
Ammonia

10.6 Hazardous decomposition products

Hazardous decomposition products : Stable under normal conditions.
Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

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

Elan-tech® AW 91 orange

Version 1.1 SDB_GB

Revision Date 04.01.2013

Print Date 16.03.2013

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

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.

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)

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Elan-tech® AW 91 orange

Version 1.1 SDB_GB

Revision Date 04.01.2013

Print Date 16.03.2013

Description of the goods: Amines, liquid, corrosive, n.o.s. (Polyoxypropylene Diamine)

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

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 sensitization 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.

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.