

**Elan-tech® ADH 891.892 dark grey (comp. A)**

Version 2.0 SDB\_GB

Revision Date 26.08.2019

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name : Elan-tech® AS89.1

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

Use of the Substance/Mixture : Adhesives

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

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

**1.4 Emergency telephone number**

+39 0736 3081 (8-17 h)

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

**2.2 Label elements**

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

Hazard pictograms :  

Signal word : Warning

Hazard statements : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.

**Elan-tech® ADH 891.892 dark grey**

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

	H319	Causes serious eye irritation.
	H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	<b>Prevention:</b>	
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/ eye protection/ face protection.
	<b>Response:</b>	
	P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
	P337 + P313	If eye irritation persists: Get medical advice/ attention.
	P362 + P364	Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

Phenolic epoxy resin F-44

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Phenol, 4,4'-(1-methylethylidene) bis-, polymer with 2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis(oxirane)

1,6-bis(2,3-epoxypropoxy)hexane

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

Chemical nature : Epoxy constituents

**Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Phenolic epoxy resin F-44	9003-36-5 01-2119454392-40	Skin Irrit.2; H315 Skin Sens.1A; H317 Aquatic Chronic2; H411	>= 30 - < 50
bis-[4-(2,3-epoxipropoxy)phenyl]propane	1675-54-3 216-823-5 01-2119456619-26	Eye Irrit.2; H319 Skin Irrit.2; H315 Skin Sens.1; H317	>= 30 - < 50

**Elan-tech® ADH 891.892 dark grey**

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

		Aquatic Chronic2; H411	
Phenol, 4,4'-(1-methylethylidene) bis-, polymer with 2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis(oxirane)	25036-25-3	Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317	>= 12,5 - < 20
1,6-bis(2,3-epoxypropoxy)hexane	933999-84-9 240-260-4 01-2119463471-41	Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 3 - < 5
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8 219-784-2 01-2119513212-58	Eye Dam.1; H318	>= 1 - < 3

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- General advice : Keep warm and in a quiet place.  
Show this safety data sheet to the doctor in attendance.  
Take off all contaminated clothing immediately.
- If inhaled : Move to fresh air.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
Do NOT use solvents or thinners.  
If on clothes, remove clothes.  
If skin irritation persists, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.  
If easy to do, remove contact lens, if worn.
- If swallowed : Keep at rest.  
Do not induce vomiting without medical advice.  
Keep respiratory tract clear.  
If symptoms persist, call a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms : irritant effects

## Elan-tech® ADH 891.892 dark grey

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

Redness  
sensitising effects

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Foam  
Sand  
Carbon dioxide (CO<sub>2</sub>)  
Water mist

Unsuitable extinguishing media : Water spray jet

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

Specific hazards during firefighting : The pressure in sealed containers can increase under the influence of heat.  
Cool closed containers exposed to fire with water spray.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Further information : In the event of fire and/or explosion do not breathe fumes.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Immediately evacuate personnel to safe areas.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 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.  
Ensure adequate ventilation.  
Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

## Elan-tech® ADH 891.892 dark grey

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

### 6.2 Environmental precautions

- Environmental precautions : Do not allow uncontrolled discharge of product into the environment.  
Try to prevent the material from entering drains or water courses.  
Local authorities should be advised if significant spillages cannot be contained.

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

- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

- For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Avoid inhalation, ingestion and contact with skin and eyes.  
Wear personal protective equipment.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : Provide adequate ventilation. Wash hands and face before breaks and immediately after handling the product.

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

- Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.
- Advice on common storage : Keep away from oxidizing agents, strongly acid or alkaline materials and amines.  
Keep product and empty container away from heat and sources of ignition.  
Keep away from food and drink.
- Other data : Stable at normal ambient temperature and pressure.

### 7.3 Specific end use(s)

## Elan-tech® ADH 891.892 dark grey

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

bis-[4-(2,3-epoxypropoxy)phenyl]propane	: End Use: Workers Exposure routes: Skin contact Potential health effects: Acute systemic effects, Long-term systemic effects Value: 8,33 mg/kg End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic effects, Long-term local effects Value: 12,25 mg/m <sup>3</sup> End Use: Consumers Exposure routes: Skin contact Potential health effects: Acute systemic effects, Long-term systemic effects Value: 3,571 mg/kg End Use: Consumers Exposure routes: Ingestion Potential health effects: Acute systemic effects, Long-term systemic effects Value: 0,75 mg/kg
1,6-bis(2,3-epoxypropoxy)hexane	: End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 2,8 mg/kg End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 4,9 mg/m <sup>3</sup>
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	: End Use: Workers Exposure routes: Skin contact Potential health effects: Acute systemic effects Value: 21 mg/kg Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 147 mg/m <sup>3</sup> End Use: Workers Potential health effects: Long-term systemic effects Value: 21 mg/kg End Use: Workers Potential health effects: Long-term systemic effects Value: 147 mg/m <sup>3</sup>

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

**Elan-tech® ADH 891.892 dark grey**

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

bis-[4-(2,3-epoxipropoxy)phenyl]propane	: Fresh water Value: 0,006 mg/l Marine water Value: 0,0006 mg/l Intermittent releases Value: 0,018 mg/l Sewage treatment plant Value: 10 mg/l Fresh water sediment Value: 0,996 mg/kg Marine sediment Value: 0,0996 mg/kg Soil Value: 0,196 mg/kg
1,6-bis(2,3-epoxypropoxy)hexane	: Sewage treatment plant Value: 1 mg/l Fresh water Value: 0,0115 mg/l Fresh water sediment Value: 0,283 mg/kg Marine water Value: 0,00115 mg/l Marine sediment Value: 0,0283 mg/kg Soil Value: 0,223 mg/kg
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	: Sewage treatment plant Value: 10 mg/l  Fresh water Value: 1 mg/l Marine water Value: 0,1 mg/l Intermittent releases Value: 1 mg/l Fresh water sediment Value: 0,79 mg/kg Soil Value: 0,13 mg/kg

**8.2 Exposure controls**

**Engineering measures**

Effective exhaust ventilation system  
effective ventilation in all processing areas

**Personal protective equipment**

Eye protection : Do not wear contact lenses.  
Safety glasses with side-shields conforming to EN166  
Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection  
Material : Protective gloves complying with EN 374.

## Elan-tech® ADH 891.892 dark grey

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

Skin and body protection	: Protective suit
Respiratory protection	: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In the case of vapour formation use a respirator with an approved filter. Equipment should conform to EN 14387 Apply technical measures to comply with the occupational exposure limits. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
Protective measures	: Avoid contact with skin. Wear suitable protective equipment.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: solid
Colour	: milky
Odour	: slight
Odour Threshold	: not determined
pH	: not determined
Melting point/freezing point	: Not applicable
Boiling point/boiling range	: > 200 °C
Flash point	: 150 °C
Evaporation rate	: not determined
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: not determined
Density	: 1,13 g/cm <sup>3</sup> (25 °C)
Bulk density	: not determined
Solubility(ies)	
Solubility in other solvents	: not determined

## Elan-tech® ADH 891.892 dark grey

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	Not applicable
Auto-ignition temperature	:	Not applicable
Thermal decomposition	:	Method: No data available
Viscosity		
Viscosity, dynamic	:	200.000 - 350.000 mPa.s (25 °C)
Viscosity, kinematic	:	not determined
Explosive properties	:	Not applicable
Oxidizing properties	:	Not applicable

### 9.2 Other information

Surface tension	:	not determined
Sublimation point	:	Not applicable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Reacts with the following substances: Bases Strong oxidizing agents Avoid amines.
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### 10.4 Conditions to avoid

Conditions to avoid	:	No decomposition if used as directed.
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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	:	This product may release the following:
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**Elan-tech® ADH 891.892 dark grey**

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

products Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

**Product:**

Acute oral toxicity : Remarks: No data available

**Components:**

**bis-[4-(2,3-epoxypropoxy)phenyl]propane:**

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 420  
GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

**1,6-bis(2,3-epoxypropoxy)hexane:**

Acute oral toxicity : LD50 (Rat): 2.900 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male): 4.250 mg/kg  
Method: OECD Test Guideline 402

**Skin corrosion/irritation**

**Product:**

Remarks: No data available

**Components:**

**bis-[4-(2,3-epoxypropoxy)phenyl]propane:**

Species: Rabbit  
Exposure time: 4 h

**Elan-tech® ADH 891.892 dark grey**

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

Method: OECD Test Guideline 404  
Result: Skin irritation  
GLP: yes

**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation

**Serious eye damage/eye irritation**

**Product:**

Remarks: No data available

**Components:**

**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Risk of serious damage to eyes.

**Respiratory or skin sensitisation**

**Product:**

Remarks: No data available

**Components:**

**bis-[4-(2,3-epoxypropoxy)phenyl]propane:**

Test Type: Mouse Local Lymph Node assay (LLNA)  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: May cause sensitisation by skin contact.  
GLP: yes

**1,6-bis(2,3-epoxypropoxy)hexane:**

Test Type: Mouse Local Lymph Node assay (LLNA)  
Exposure routes: Dermal  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: May cause sensitisation by skin contact.  
GLP: yes

**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

Test Type: Buehler Test  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.  
GLP: yes

## Elan-tech® ADH 891.892 dark grey

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

### Germ cell mutagenicity

### Carcinogenicity

### Reproductive toxicity

### STOT - single exposure

#### Product:

Remarks: Not applicable

### STOT - repeated exposure

### Repeated dose toxicity

#### Product:

Remarks: No data available

### Aspiration toxicity

#### Components:

#### **bis-[4-(2,3-epoxipropoxy)phenyl]propane:**

No aspiration toxicity classification

### Further information

#### Product:

Remarks: No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

#### Components:

#### **bis-[4-(2,3-epoxipropoxy)phenyl]propane:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 1,7 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,3 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

## Elan-tech® ADH 891.892 dark grey

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

### 1,6-bis(2,3-epoxypropoxy)hexane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 30 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

### [3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 55 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

### Components:

#### bis-[4-(2,3-epoxypropoxy)phenyl]propane:

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301F  
GLP: yes

#### 1,6-bis(2,3-epoxypropoxy)hexane:

Biodegradability : Test Type: aerobic  
Result: Inherently biodegradable.  
Method: OECD Test Guideline 301D  
GLP: yes

#### [3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Biodegradability : Test Type: aerobic  
Result: Not readily biodegradable.  
Method: Directive 67/548/EEC Annex V, C.4.A.

## Elan-tech® ADH 891.892 dark grey

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

GLP: yes

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

**Components:**

**bis-[4-(2,3-epoxypropoxy)phenyl]propane:**

Partition coefficient: n-octanol/water : log Pow: 3,242 (25 °C)  
pH: 7,1  
Method: OECD Test Guideline 117  
GLP: yes

**1,6-bis(2,3-epoxypropoxy)hexane:**

Partition coefficient: n-octanol/water : log Pow: 0,822 (20 °C)  
pH: 6 - 8  
Method: OECD Test Guideline 107  
GLP: yes

### 12.4 Mobility in soil

**Components:**

**1,6-bis(2,3-epoxypropoxy)hexane:**

Distribution among environmental compartments : log Koc: 2,98  
Method: OECD Test Guideline 121

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

**Product:**

Additional ecological information : Remarks: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : In accordance with local and national regulations.  
Container hazardous when empty.  
Do not dispose of with domestic refuse.  
Do not mix waste streams during collection.

## Elan-tech® ADH 891.892 dark grey

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

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

### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID/ADN : UN 3077

IMDG : UN 3077

IATA : UN 3077

#### 14.2 UN proper shipping name

ADR/RID/ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Epoxy resin)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Epoxy resin)

IATA : Environmentally hazardous substance, solid, n.o.s.  
(Epoxy resin)

#### 14.3 Transport hazard class(es)

ADR/RID/ADN : 9

IMDG : 9

IATA : 9

#### 14.4 Packing group

ADR/RID/ADN  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Remarks :

IMDG  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

IATA  
Packing instruction (cargo aircraft) : 956  
Packing instruction (passenger aircraft) : 956  
Packing group : III  
Labels : 9

#### 14.5 Environmental hazards

**Elan-tech® ADH 891.892 dark grey**

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

**ADR/RID/ADN**

Environmentally hazardous : yes

**IMDG**

Marine pollutant : yes

**IATA**

Environmentally hazardous : yes

**14.6 Special precautions for user**

Remarks : The transport of dangerous goods, including their loading and unloading, must be done by people who received the necessary training required by Modal Regulations.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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**SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL HAZARDS	200 t	500 t

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 1 %, 11,3 g/l  
Remarks: VOC content excluding water

Other regulations : For the product composition, we do not add any of the substances listed in the European Directive 2011/65/EU (RoHS 2, RoHS 3, and China RoHS).  
The product is thus in line with those directives.  
We do not add Conflict minerals to the product.

## Elan-tech® ADH 891.892 dark grey

Version 2.0 SDB\_GB

Revision Date 26.08.2019

Print Date 27.08.2019

### 15.2 Chemical safety assessment

Not applicable

## SECTION 16: Other information

### Full text of H-Statements

H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation

### Further information

Training advice	: Provide adequate information, instruction and training for operators.
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.