

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



## Elan-tech® ADH 891.892 dark grey

Version  
6.0 SDB\_REG\_EU

Revision Date:  
14.04.2025

Date of last issue: 10.07.2024  
Date of first issue: 30.04.2019

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

#### 1.1 Product identifier

Trade name : Elan-tech® AS89.1

UFI : DUX3-M0DK-5000-NG0E

This substance/ mixture contains nanoforms (according to REACH Regulation)

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

Use of the Sub-  
stance/Mixture : Adhesive

Recommended restrictions  
on use : For industrial use only.

#### 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 of person  
responsible for the SDS : msds.elantas.europe@altana.com

#### 1.4 Emergency telephone

+44 1235 239670 (All languages)

+1 215 207 0061 (America)

+65 3158 1074 (East/South East Asia)

### 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 sensitization, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 1B	H360F: May damage fertility.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

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Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H360F May damage fertility. H411 Toxic to aquatic life with long lasting effects.
Precautionary Statements	:	<b>Prevention:</b> P201 Obtain special instructions before use. P261 Avoid breathing dust. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. <b>Response:</b> P308 + P313 IF exposed or concerned: Get medical advice/ attention. P391 Collect spillage.

### Hazardous ingredients which must be listed on the label:

Phenolic epoxy resin F-44

bis-[4-(2,3-epoxypropoxy)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

### Additional Labeling

EUH205 Contains epoxy constituents. May produce an allergic reaction.

### 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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Modified epoxy resin

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Phenolic epoxy resin F-44	Not Assigned 01-2119454392-40	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Chronic 2; H411	>= 30 - < 50
bis-[4-(2,3-epoxypropoxy)phenyl]propane	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411  specific concentration limit Eye Irrit. 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 %	>= 30 - < 50
Phenol, 4,4'-(1-methylethylidene) bis-, polymer with 2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis(oxirane)	25036-25-3	Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 12,5 - < 20
1,6-bis(2,3-epoxypropoxy)hexane	933999-84-9 01-2119463471-41	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Repr. 1B; H360F	>= 3 - < 5
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8 219-784-2 01-2119513212-58	Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 1 - < 2,5

For explanation of abbreviations see section 16.

This substance/ mixture contains nanofoms (according to REACH Regulation)

##### Components:

##### **Silicon dioxide:**

Particle characteristics

Assessment : Assessment: This substance/ mixture contains nanofoms

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(according to REACH Regulation)

Shape : Shape: spheres  
Crystallinity : Crystallinity: amorphous  
Surface treatment /Coatings : Surface treatment /Coatings: yes  
Properties of Coated Particle: hydrophobic

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

General advice : Keep warm and in a quiet place.  
Show this material 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  
Redness  
sensitizing 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 fire fighting : 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 fire-fighters : 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.

### 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.

#### 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,

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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 labeled containers.

### 6.4 Reference to other sections

For personal protection see section 8.

## 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 sensitization 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 labeled 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.
- Further information on storage stability : Stable at normal ambient temperature and pressure.

### 7.3 Specific end use(s)

- 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:

Substance name	End Use	Routes of exposure	Potential health effects	Value
bis-[4-(2,3-	Workers	Skin contact	Acute systemic ef-	8,33 mg/kg

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epox- ipropoxi)phenyl]propane			fects, Long-term systemic effects	
	Workers	Inhalation	Acute systemic effects, Long-term local effects	12,25 mg/m3
	Consumers	Skin contact	Acute systemic effects, Long-term systemic effects	3,571 mg/kg
	Consumers	Ingestion	Acute systemic effects, Long-term systemic effects	0,75 mg/kg
1,6-bis(2,3-epoxypropoxy)hexane	Workers	Skin contact	Long-term systemic effects	2,8 mg/kg
	Workers	Inhalation	Long-term systemic effects	4,9 mg/m3
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Workers	Skin contact	Acute systemic effects	21 mg/kg
		Inhalation	Acute systemic effects	147 mg/m3
	Workers		Long-term systemic effects	21 mg/kg
	Workers		Long-term systemic effects	147 mg/m3

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

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

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### 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.
- Material : butyl-rubber  
Break through time : > 480 min  
Glove thickness : 0,35 mm
- Material : Neoprene  
Break through time : > 480 min  
Glove thickness : 0,35 mm
- Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : 0,35 mm
- Remarks : For prolonged or repeated contact use protective gloves.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things from the material, the thickness and the type of glove and therefore has to be measured for each case. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- 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 vapor 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

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Physical state	:	solid
Color	:	milky
Odor	:	slight
Odor Threshold	:	not determined
Melting point/freezing point	:	Not applicable
Boiling point/boiling range	:	> 200 °C
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	150 °C
Autoignition temperature	:	Not applicable
Decomposition temperature	:	No data available
pH	:	4 - 6 Concentration: 1 %
Viscosity		
Viscosity, dynamic	:	200.000 - 350.000 mPa.s (25 °C)
Viscosity, kinematic	:	not determined
Solubility(ies)		
Water solubility	:	not determined
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	No data available
Vapor pressure	:	not determined
Density	:	1,13 g/cm <sup>3</sup> (25 °C)
Bulk density	:	not determined
Relative vapor density	:	not determined
Particle characteristics		
Assessment	:	Assessment: This substance/ mixture contains nanoforms (according to REACH Regulation)
Particle size	:	Further particle properties for nanomaterials see section 3

### 9.2 Other information

Explosives	:	Not applicable
Oxidizing properties	:	Not applicable

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Evaporation rate : not determined

Surface tension : not determined

Sublimation point : Not applicable

### 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.

#### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

#### 10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.

#### 10.6 Hazardous decomposition products

This product may release the following:  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Acute toxicity (other routes of administration) : Remarks: No data available

##### Components:

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

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg

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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  
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

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### Components:

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

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

### **Respiratory or skin sensitization**

#### 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 sensitization by skin contact.  
GLP : yes

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

Test Type : Mouse Local Lymph Node assay (LLNA)  
Routes of exposure : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitization 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 sensitization.  
GLP : yes

### **Carcinogenicity**

#### Product:

Remarks : No data available

### **Reproductive toxicity**

#### Product:

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

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### STOT-single exposure

**Product:**

Remarks : No data available

### STOT-repeated exposure

**Product:**

Remarks : No data available

### Repeated dose toxicity

**Product:**

Remarks : No data available

### Aspiration toxicity

**Components:**

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

No aspiration toxicity classification

## 11.2 Information on other hazards

### Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 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:**

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 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)  
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

Physico-chemical removability : Remarks: No data available

### **Components:**

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

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

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### 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.  
GLP: yes

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

### Components:

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

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

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

Partition coefficient: n- : log Pow: 0,822 (20 °C)  
octanol/water 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 environ- : log Koc: 2,98  
mental compartments 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.

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## Elan-tech® ADH 891.892 dark grey

Version  
6.0 SDB\_REG\_EU

Revision Date:  
14.04.2025

Date of last issue: 10.07.2024  
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### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:**

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

## 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.

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 or ID 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

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IATA : 9

### 14.4 Packing group

#### ADR/RID/ADN

Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : -

#### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Remarks : IMDG Code segregation group - none

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 956  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

### 14.5 Environmental hazards

#### ADR/RID/ADN

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

Remarks : IATA: These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8., IMDG: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any addi-

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tional hazards continue to apply.

, ADR: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

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

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## 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, mixtures and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

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

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

: Not applicable

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors : 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. E2 ENVIRONMENTAL HAZARDS

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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.

### 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.  
H360F : May damage fertility.  
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  
Repr. : Reproductive toxicity  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitization

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-

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striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Training advice : Provide adequate information, instruction and training for operators.

Other information : Sections, highlighted in grey, indicates changes towards the previous version.

Sources of key data used to compile the Material Safety Data Sheet : Information taken from reference works and the literature. See the list mentioned above.

### Classification of the mixture:

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Repr. 1B	H360F
Aquatic Chronic 2	H411

### Classification procedure:

Calculation method

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.

REG\_EU / EN

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

#### 1.1 Product identifier

Trade name : Elan-tech® AW 89.2 NF black

UFI : 51T3-80RC-0009-MCCT

This substance/ mixture contains nanoforms (according to REACH Regulation)

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

Use of the Sub-  
stance/Mixture : Adhesive

Recommended restrictions  
on use : For industrial use only.

#### 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 of person  
responsible for the SDS : msds.elantas.europe@altana.com

#### 1.4 Emergency telephone

+44 1235 239670 (All languages)

+1 215 207 0061 (America)

+65 3158 1074 (East/South East Asia)

### SECTION 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 1	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitization, 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

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

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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.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P391 Collect spillage.

### Hazardous ingredients which must be listed on the label:

2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperaziny)ethyl]amino]butyl-terminated

3,6-dioxaoctamethylenediamine

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane

Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

3-aminomethyl-3,5,5-trimethylcyclohexylamine

m-phenylenebis(methylamine)

### 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.

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Modified epoxy resin

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	68683-29-4	Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 30 - < 50
3,6-dioxaoctamethylenediamine	929-59-9 213-203-6	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317	>= 20 - < 25
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane	38294-69-8 701-406-7 500-104-0 01-2120766646-41, 01-2120766646-41-0001	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 - < 12,5
Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	68082-29-1 500-191-5 01-2119972320-44	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 10 - < 12,5
N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	10563-29-8 234-148-4 01-2119970376-29	Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317	>= 5 - < 7
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317  specific concentration limit Skin Sens. 1A; H317 >= 0,001 %	>= 1 - < 2,5

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		Acute toxicity estimate Acute oral toxicity: 1.030 mg/kg	
m-phenylenebis(methylamine)	1477-55-0 216-032-5 01-2119480150-50	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Skin Sens. 1B; H317 Aquatic Chronic 3; H412 EUH071	>= 1 - < 2,5
Phenol, styrenated	61788-44-1 262-975-0	Aquatic Chronic 2; H411	>= 1 - < 2,5

For explanation of abbreviations see section 16.

This substance/ mixture contains nanoforms (according to REACH Regulation)

### **Components:**

#### **Silica, amorphous, fumed, cryst.-free:**

##### Particle characteristics

Assessment	:	Assessment: This substance/ mixture contains nanoforms (according to REACH Regulation)
Shape	:	Shape: spheres
Crystallinity	:	Crystallinity: amorphous
Surface treatment /Coatings	:	Surface treatment /Coatings: no

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

General advice	:	Show this material safety data sheet to the doctor in attendance. Keep warm and in a quiet place. 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.

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- tion.
- 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.  
Burns must be treated by 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 : Do NOT induce vomiting.  
If a person vomits when lying on his back, place him in the  
recovery position.  
Call a physician immediately.  
Give small amounts of water to drink.

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

- Symptoms : Burn  
superficial burning sensation  
Redness  
Severe irritation

### 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.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Foam  
Dry powder  
Water mist
- Unsuitable extinguishing media : None known.

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

- Specific hazards during fire fighting : The pressure in sealed containers can increase under the  
influence of heat.  
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 fire-fighters : 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.

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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.

### 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.

#### 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 labeled containers.

#### 6.4 Reference to other sections

For personal protection see section 8.

### 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.  
Do not breathe vapors or spray mist.  
Avoid inhalation, ingestion and contact with skin and eyes.  
Wear personal protective equipment.  
Persons with a history of skin sensitization 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.

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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 labeled containers. To maintain product quality, do not store in heat or direct sunlight.

Further information on storage conditions : Protect from moisture.

Advice on common storage : Keep away from isocyanates.  
Do not store near acids.  
Keep away from oxidizing agents.

Further information on storage stability : Stable at normal ambient temperature and pressure.

### 7.3 Specific end use(s)

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:

Substance name	End Use	Routes of exposure	Potential health effects	Value
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane	Workers	Oral	Long-term systemic effects	0,529 mg/m3
	Workers	Dermal	Long-term systemic effects	0,6 mg/kg
Silica, amorphous, fumed, cryst.-free	Workers	Inhalation	Long-term local effects	4 mg/m3

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

Substance name	Environmental Compartment	Value
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane	Fresh water	0 mg/l
	Sea water	0 mg/l
	Sewage treatment plant	1 mg/l
	Fresh water sediment	0,002 mg/l
	Sea sediment	0 mg/l
	Soil	0 mg/l

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3-aminomethyl-3,5,5-trimethylcyclohexylamine	Fresh water	0,06 mg/l
	Sea water	0,006 mg/l
	Intermittent releases	0,23 mg/l
	Fresh water sediment	5,784 mg/kg
	Sea sediment	0,578 mg/kg
	Sewage treatment plant	3,18 mg/l
	Soil	1,121 mg/kg

### 8.2 Exposure controls

#### Engineering measures

Effective exhaust ventilation system  
effective ventilation in all processing areas

#### Personal protective equipment

- Eye protection : Safety glasses with side-shields conforming to EN166  
Do not wear contact lenses.  
Ensure that eyewash stations and safety showers are close to the workstation location.
- Hand protection  
Material : Protective gloves complying with EN 374.
- Remarks : Nitrile rubber
- Skin and body protection : Protective suit  
Recommended preventive skin protection
- Respiratory protection : Use respirator when performing operations involving potential exposure to vapor of the product.  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.  
Recommended Filter type:  
ABEK-filter  
Equipment should conform to EN 14387
- 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

- Physical state : liquid  
Color : black  
Odor : ammoniacal  
Odor Threshold : not determined
- Melting point/freezing point : Not applicable
- Boiling point/boiling range : > 150 °C
- Upper explosion limit / Upper flammability limit : Not applicable

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Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	100 °C
Autoignition temperature	:	Not applicable
Decomposition temperature	:	No data available
pH	:	11 Concentration: 1 %
Viscosity		
Viscosity, dynamic	:	300.000 - 450.000 mPa.s (25 °C)
Viscosity, kinematic	:	not determined
Solubility(ies)		
Water solubility	:	not determined
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	No data available
Vapor pressure	:	not determined
Density	:	0,98 g/cm <sup>3</sup> (25 °C)
Bulk density	:	not determined
Relative vapor density	:	not determined
Particle characteristics		
Assessment	:	Assessment: This substance/ mixture contains nanoforms (according to REACH Regulation)
Particle size	:	Further particle properties for nanomaterials see section 3

### 9.2 Other information

Explosives	:	Not applicable
Oxidizing properties	:	Not applicable
Evaporation rate	:	not determined
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:  
Acids  
Strong oxidizing agents

#### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

#### 10.5 Incompatible materials

Materials to avoid : Strong acids  
Strong oxidizing agents

#### 10.6 Hazardous decomposition products

This product may release the following:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: 1.264 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Calculation method

Acute dermal toxicity : Remarks: No data available

Acute toxicity (other routes of administration) : Remarks: No data available

##### Components:

**Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Acute oral toxicity : LD50 (Rat, female): > 300 mg/kg  
Method: OECD Test Guideline 420

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GLP: yes

### 3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Acute oral toxicity : Acute toxicity estimate: 1.030 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

### Skin corrosion/irritation

#### Product:

Remarks : No data available

#### Components:

### Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:

Species : reconstructed human epidermis (RhE)  
Assessment : Causes burns.  
Method : OECD Test Guideline 439  
Result : Corrosive to skin  
GLP : yes  
Test substance : Read-across (Analogy)

### Serious eye damage/eye irritation

#### Product:

Remarks : No data available

#### Components:

### Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:

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

### Respiratory or skin sensitization

#### Product:

Remarks : No data available

#### Components:

### Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Assessment : The product is a skin sensitizer, sub-category 1A.  
Method : OECD Test Guideline 429

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Result : Causes sensitization.  
GLP : yes

### Germ cell mutagenicity

#### Components:

**Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

### Carcinogenicity

#### Product:

Remarks : No data available

### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

#### Components:

**Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Effects on fetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Strain: wistar  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 60 mg/kg body weight  
Teratogenicity: NOAEL F1: 60 mg/kg body weight  
Developmental Toxicity: NOAEL F1: 60 mg/kg body weight  
Embryo-fetal toxicity.: NOAEL F1: 60 mg/kg body weight  
Method: OECD Test Guideline 422  
GLP: yes

### STOT-single exposure

#### Product:

Remarks : No data available

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### STOT-repeated exposure

**Product:**

Remarks : No data available

### Repeated dose toxicity

**Product:**

Remarks : No data available

### Components:

**Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Species : Rat, male and female  
NOAEL : 60 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 422  
GLP : yes

### Aspiration toxicity

**Components:**

**3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

No aspiration toxicity classification

## 11.2 Information on other hazards

### Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

**Product:**

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other : Remarks: No data available

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aquatic invertebrates

### Components:

#### **Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 0,16 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 : EL50 (Daphnia magna (Water flea)): 1,7 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErL50 (Pseudokirchneriella subcapitata (green algae)): 0,31 mg/l  
Exposure time: 72 h  
Test Type: semi-static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : (activated sludge): > 100 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209  
GLP: yes

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

### Components:

#### **Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

#### **3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

Biodegradability : Test Type: aerobic

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Result: Not readily biodegradable.  
Method: Directive 67/548/EEC Annex V, C.4.A.  
GLP: yes

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### **Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Partition coefficient: n- : log Pow: 0,292 (20 - 25 °C)  
octanol/water pH: 12  
Method: OECD Test Guideline 117  
GLP: yes

##### **3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

Partition coefficient: n- : log Pow: 0,99  
octanol/water Method: OECD Test Guideline 107  
GLP: yes

### 12.4 Mobility in soil

#### Components:

##### **Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane:**

Distribution among environ- : Koc: 566 ml/g  
mental compartments Method: estimated

### 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 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### 12.7 Other adverse effects

**Product:**

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

## 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.

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 or ID number

ADR/RID/ADN : UN 2735  
IMDG : UN 2735  
IATA : UN 2735

### 14.2 UN proper shipping name

ADR/RID/ADN : AMINES, LIQUID, CORROSIVE, N.O.S.  
(TRIETHYLENE GLYCOL DIAMINE, Reaction Product of  
Badge with Teta)  
IMDG : AMINES, LIQUID, CORROSIVE, N.O.S.  
(TRIETHYLENE GLYCOL DIAMINE, Reaction Product of  
Badge with Teta)  
IATA : Amines, liquid, corrosive, n.o.s.  
(TRIETHYLENE GLYCOL DIAMINE, Reaction Product of  
Badge with Teta)

### 14.3 Transport hazard class(es)

ADR/RID/ADN : 8  
IMDG : 8  
IATA : 8

### 14.4 Packing group

ADR/RID/ADN  
Packing group : III  
Classification Code : C7  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : E

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### IMDG

Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
Remarks : IMDG Code segregation group 18 - Alkalis

### IATA (Cargo)

Packing instruction (cargo aircraft) : 856  
Packing group : III  
Labels : Corrosives

### IATA (Passenger)

Packing instruction (passenger aircraft) : 852  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosives

## 14.5 Environmental hazards

### ADR/RID/ADN

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

Remarks : IATA: These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8., IMDG: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.  
, ADR: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.  
The transport of dangerous goods, including their loading and unloading, must be done by people who received the neces-

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sary training required by Modal Regulations.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## 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, mixtures and articles (Annex XVII)     | : | Conditions of restriction for the following entries should be considered:<br>Number on list: 3 |
| REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).  | : | Not applicable   |
| Regulation (EU) No 2024/590 on substances that deplete the ozone layer   | : | Not applicable   |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast)  | : | Not applicable   |
| Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals                 | : | Not applicable   |
| REACH - List of substances subject to authorisation (Annex XIV)  | : | Not applicable   |
| Regulation (EU) 2019/1148 on the marketing and use of explosives precursors  | : | Not applicable   |
| International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors  | : | Not applicable   |
| Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors | : | 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. E2 ENVIRONMENTAL HAZARDS

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.

### 15.2 Chemical Safety Assessment

Not applicable

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### SECTION 16: Other information

#### Full text of H-Statements

H302	: Harmful if swallowed.
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.
H332	: Harmful if inhaled.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.
EUH071	: Corrosive to the respiratory tract.

#### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitization

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet;

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SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Training advice : Provide adequate information, instruction and training for operators.

Other information : Sections, highlighted in grey, indicates changes towards the previous version.

Sources of key data used to compile the Material Safety Data Sheet : Information taken from reference works and the literature. See the list mentioned above.

### Classification of the mixture:

Acute Tox. 4	H302
Skin Corr. 1	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

### Classification procedure:

Calculation method

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.

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