

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

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

1.1 Product identifier

Trade name : Elan-tech® PC 25 bianco

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

Use of the Sub-
stance/Mixture : Casting Resin

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

+39 0736 3081 (8-17 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2	H319: Causes serious eye irritation.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Chronic aquatic toxicity, Category 4	H413: May cause long lasting harmful effects to aquatic life.

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

Harmful	R65: Harmful: may cause lung damage if swallowed.
Irritant	R36: Irritating to eyes.
Dangerous for the environment	R53: May cause long-term adverse effects in the aquatic environment.

2.2 Label elements



Labelling (REGULATION (EC) No 1272/2008)

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H304 H319 H413	May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause long lasting harmful effects to aquatic life.
Precautionary statements	:	Prevention: P273 P280 Response: P301 + P310 P331 P337 + P313 Disposal: P501	Avoid release to the environment. Wear eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Do NOT induce vomiting. If eye irritation persists: Get medical advice/ attention. Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
bis(isopropyl)naphthalene

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 : Polyether/polyester polyol based mixture

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Polyether Polyol	25214-63-5 01-2119471485-32-0002	Xi; R36	Eye Irrit. 2; H319	>= 30 - < 50
bis(isopropyl)naphthalene	38640-62-9 254-052-6	R53	Asp. Tox. 1; H304 Aquatic Chronic 4;	>= 25 - < 30

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

			H413	
distillates (petroleum), hydrotreated light	64742-47-8 265-149-8 /	Xn; R65 R66	Asp. Tox. 1; H304	>= 10 - < 12,5
Low boiling point naphtha - unspecified	64742-95-6 265-199-0 01- 2119455851-35	Xn; R65 N; R51/53 R10 R67 R66 Xi; R37	STOT SE 3; H336, H335 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Flam. Liq. 3; H226	>= 0,25 - < 0,5

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 symptoms persist, call a physician.
- 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
 Lachrymation
 Redness

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Foam
Sand
Carbon dioxide (CO₂)
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 firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Further information : 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, acid binder, universal binder, sawdust).

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

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.

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.
- 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. To maintain product quality, do not store in heat or direct sunlight.
- Advice on common storage : 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)

- 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:

- Polyether Polyol : End Use: Workers
Exposure routes: Skin contact
Value: 13,9 mg/kg
End Use: Workers
Exposure routes: Inhalation
Value: 98 mg/m³
- bis(isopropyl)naphthalene : End Use: Consumers

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

		Exposure routes: Ingestion
		Potential health effects: Long-term systemic effects
		Value: 2,1 mg/kg
		End Use: Consumers
		Exposure routes: Skin contact
		Potential health effects: Long-term systemic effects
		Value: 2,1 mg/kg
		End Use: Workers
		Exposure routes: Skin contact
		Potential health effects: Long-term systemic effects
		Value: 4,3 mg/kg
		End Use: Consumers
		Exposure routes: Inhalation
		Potential health effects: Long-term systemic effects
		Value: 7,4 mg/m3
		End Use: Workers
		Exposure routes: Inhalation
		Potential health effects: Long-term systemic effects
		Value: 30 mg/m3
2-(2-butoxyethoxy)ethyl ace-	:	End Use: Workers
tate		Exposure routes: Inhalation
		Potential health effects: Long-term systemic effects
		Value: 85 mg/m3
		End Use: Workers
		Exposure routes: Skin contact
		Potential health effects: Long-term systemic effects
		Value: 24 mg/kg
		End Use: Consumers
		Exposure routes: Inhalation
		Potential health effects: Long-term systemic effects
		Value: 43 mg/m3
		End Use: Consumers
		Exposure routes: Skin contact
		Potential health effects: Long-term systemic effects
		Value: 12 mg/kg
		End Use: Consumers
		Exposure routes: Ingestion
		Potential health effects: Long-term systemic effects
		Value: 1,58 mg/kg
Low boiling point naphtha -	:	End Use: Workers
unspecified		Exposure routes: Skin contact
		Potential health effects: Long-term exposure, Systemic effects
		Value: 25 mg/kg
		End Use: Workers
		Exposure routes: Inhalation
		Potential health effects: Long-term exposure, Systemic effects
		Value: 150 mg/m3
		End Use: Consumers
		Exposure routes: Skin contact
		Potential health effects: Long-term exposure, Systemic effects
		Value: 11 mg/kg
		End Use: Consumers
		Exposure routes: Inhalation
		Potential health effects: Long-term exposure, Systemic effects
		Value: 32 mg/m3
		End Use: Consumers

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

Exposure routes: Ingestion
Potential health effects: Long-term exposure, Systemic effects
Value: 11 mg/kg

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

bis(isopropyl)naphthalene	: Sewage treatment plant Value: 0,15 mg/l Fresh water Value: 0,00026 mg/l Marine water Value: 0,000026 mg/l Fresh water sediment Value: 0,94 mg/kg Marine sediment Value: 0,094 mg/kg Soil Value: 0,19 mg/kg
2-(2-butoxyethoxy)ethyl acetate	: Fresh water Value: 0,108 mg/l Marine water Value: 0,0108 mg/l Fresh water sediment Value: 0,8 mg/kg Marine sediment Value: 0,08 mg/kg Soil Value: 0,29 mg/kg Intermittent releases Value: 0,6 mg/l Sewage treatment plant Value: 100 mg/l

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	: Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.
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. Respirator with a vapour filter (EN 141)

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

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 : liquid

Colour : white

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 : 0,99 g/cm³ (25 °C)

Bulk density : not determined

Solubility(ies)
Solubility in other solvents : not determined

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : Not applicable

Thermal decomposition : Method: No data available

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

Viscosity
Viscosity, dynamic : 50 - 80 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

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:
Isocyanates
Keep away from oxidizing agents, and acidic or alkaline products.

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

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: No data available

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

Components:

bis(isopropyl)naphthalene:

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,64 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

distillates (petroleum), hydrotreated light:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): 4,951 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Low boiling point naphtha - unspecified:

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

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3.160 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks: No data available

Components:

bis(isopropyl)naphthalene:

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

distillates (petroleum), hydrotreated light:

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

Low boiling point naphtha - unspecified:

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

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

Serious eye damage/eye irritation

Product:

Remarks: No data available

Components:

bis(isopropyl)naphthalene:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

GLP: yes

Low boiling point naphtha - unspecified:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

GLP: yes

Respiratory or skin sensitisation

Product:

Remarks: No data available

Components:

bis(isopropyl)naphthalene:

Test Type: Maximisation Test (GPMT)

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

GLP: yes

Low boiling point naphtha - unspecified:

Test Type: Maximisation Test (GPMT)

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

Product:

Remarks: Not applicable

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

STOT - repeated exposure

Repeated dose toxicity

Product:

Remarks: No data available

Aspiration toxicity

Components:

Low boiling point naphtha - unspecified:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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 aquatic invertebrates : Remarks: No data available

Components:

bis(isopropyl)naphthalene:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 0,5 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes

distillates (petroleum), hydrotreated light:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l
Exposure time: 48 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)): > 1.000 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): >

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

1.000 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Low boiling point naphtha - unspecified:

Toxicity to fish : LL50 (Fish): 9,2 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 3,2 mg/l
aquatic invertebrates : Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata): 2,6 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

bis(isopropyl)naphthalene:

Biodegradability : Test Type: aerobic
Result: Not readily biodegradable.
Method: OECD Test Guideline 310
GLP: yes

distillates (petroleum), hydrotreated light:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Method: OECD Test Guideline 301F
GLP: yes

Low boiling point naphtha - unspecified:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

No data available

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

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.

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 local recyclers for disposal.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Low boiling point naphtha - unspecified
Xylene, mixture of isomers
2-methoxy-1-methylethyl acetate
2-methylpropan-1-ol

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 II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

		Quantity 1	Quantity 2
13	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)	2.500 t	25.000 t

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: Other information

Full text of R-Phrases

- R10 : Flammable.
- R36 : Irritating to eyes.
- R37 : Irritating to respiratory system.
- R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R53 : May cause long-term adverse effects in the aquatic environment.
- R65 : Harmful: may cause lung damage if swallowed.
- R66 : Repeated exposure may cause skin dryness or cracking.
- R67 : Vapours may cause drowsiness and dizziness.

Full text of H-Statements

- H226 : Flammable liquid and vapour.
- H304 : May be fatal if swallowed and enters airways.
- H319 : Causes serious eye irritation.
- H335 : May cause respiratory irritation.
- H336 : May cause drowsiness or dizziness.
- H411 : Toxic to aquatic life with long lasting effects.
- H413 : May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

- Aquatic Chronic : Chronic aquatic toxicity
- Asp. Tox. : Aspiration hazard
- Eye Irrit. : Eye irritation

Elan-tech® PC 25 bianco

Version 3.0 SDB_GB

Revision Date 13.11.2014

Print Date 01.12.2014

Flam. Liq. : Flammable liquids
STOT SE : Specific target organ toxicity - single exposure

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.