according to Regulation (EC) No. 1907/2006



### **ELMOTHERM ® FS 190**

Version 5.0 SDB\_REG\_EU Revision Date 21.01.2016 Print Date 09.11.2016

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

1.1 Product identifier

Trade name : ELMOTHERM ® FS 190

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

Use of the : Insulating varnish

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : ELANTAS Europe S.r.l.

Strada Antolini 1 43044 Collecchio

Italy

Telephone : +3907363081 Telefax : +390736402746

E-mail address : msds.elantas.europe@altana.com

1.4 Emergency telephone number

+39 0736 3081 (8-17 h)

#### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Specific target organ toxicity - single exposure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

Aspiration hazard , Category 1 H304: May be fatal if swallowed and enters

airways.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting

effects.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :





Signal word : Danger

according to Regulation (EC) No. 1907/2006



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Hazard statements	: H226 H304	Flammable liquid and vapour.  May be fatal if swallowed and enters	
	11000	airways.	p
	H336	May cause drowsiness of	
	H412	Harmful to aquatic life w effects.	ith long lasting
Supplemental Hazard Statements	: EUH066	Repeated exposure may dryness or cracking.	cause skin
Precautionary statements	: Prevention:		
	P210	Keep away from heat/sp	
	D064	flames/hot surfaces. No	
	P261	Avoid breathing dust/ fur vapours/ spray.	ne/ gas/ mis/
	P273	Avoid release to the env	ironment.
	Response:		
	P301 + P310	IF SWALLOWED: Imme POISON CENTER or do	•
	P331	Do NOT induce vomiting	J.
	P370 + P378	In case of fire: Use dry son alcohol-resistant foam	

Hazardous components which must be listed on the label: low boiling point hydrogen treated naphtha

# 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 : Alkyd Resin Solution

# **Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
low boiling point hydrogen treated naphtha	64742-48-9 265-150-3 01-2119471843-32	STOT SE3; H336 Asp. Tox.1; H304 Flam. Liq.3; H226 Aquatic Chronic3; H412	>= 30 - < 50
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not Assigned 01-2119463258-33	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304	>= 7 - < 10

For explanation of abbreviations see section 16.

according to Regulation (EC) No. 1907/2006



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### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Do not leave the victim unattended.

Consult a physician.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

If inhaled : Move to fresh air.

If unconscious place in recovery position and seek medical

advice.

Oxygen or artificial respiration if needed. If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off immediately with plenty of water for at least 15

minutes.

Use a mild soap if available.

Wash contaminated clothing before re-use.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Consult a physician.

Keep eye wide open while rinsing.

Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Gently wipe or rinse the inside of the mouth with water.

Call a physician immediately.

Never give anything by mouth to an unconscious person.

Do not give milk or alcoholic beverages.

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

Symptoms : Nausea

Vomiting

Central nervous system depression

### 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 : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

according to Regulation (EC) No. 1907/2006



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Unsuitable extinguishing

media

: High volume water jet

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

Specific hazards during

firefighting

: Warning: water promotes the spread of fire. Cool containers/tanks with water spray.

Burning produces irritant fumes.

The pressure in sealed containers can increase under the

influence of heat.

Exposure to decomposition products may be a hazard to

health.

#### 5.3 Advice for firefighters

Special protective equipment

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

Further information : 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.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Remove all sources of ignition. Ensure adequate ventilation.

Keep people away from and upwind of spill/leak.

#### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.

Local authorities should be advised if significant spillages

cannot be contained.

Retain and dispose of contaminated wash water.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

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

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent

material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

Sweep up and shovel into suitable containers for disposal.

Clean contaminated surface thoroughly.

according to Regulation (EC) No. 1907/2006



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#### 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.

Ensure all equipment is electrically grounded before beginning

transfer operations.

Avoid inhalation, ingestion and contact with skin and eyes.

Keep away from fire, sparks and heated surfaces.

Keep container closed when not in use.

Advice on protection against

fire and explosion

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition.

Hygiene measures Store personal protection equipment in a clean location away

from the work area. Keep working clothes separately.

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

Requirements for storage

areas and containers

: Keep container tightly closed in a dry and well-ventilated place. Do not store together with explosives, gases, oxidizing solids, products which form flammable gases in contact with water, oxidizing products, infectious products and radioactive products.

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:

low boiling point hydrogen

treated naphtha

: End Use: Workers

Exposure routes: Skin contact

Potential health effects: Chronic effects, Systemic effects

Value: 300 mg/kg End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Chronic effects, Systemic effects

Value: 300 mg/kg End Use: Workers

Exposure routes: Inhalation

Potential health effects: Chronic effects, Systemic effects

Value: 1500 mg/m3

according to Regulation (EC) No. 1907/2006



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End Use: Consumers
Exposure routes: Inhalation

Potential health effects: Chronic effects, Systemic effects

Value: 900 mg/m3 End Use: Consumers Exposure routes: Ingestion

Potential health effects: Chronic effects, Systemic effects

Value: 300 mg/kg

### 8.2 Exposure controls

#### **Engineering measures**

Use only appropriately classified electrical equipment and powered industrial trucks.

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Ensure that eyewash stations and safety showers are close to

the workstation location. Do not wear contact lenses.

Hand protection

Material : Polyvinyl alcohol or nitrile- butyl-rubber gloves

Remarks : Gloves should be discarded and replaced if there is any

indication of degradation or chemical breakthrough.

Material : Protective gloves complying with EN 374.

Skin and body protection : Workers should wear antistatic footwear.

Remove and wash contaminated clothing before re-use. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

Respiratory protection complying with EN 141.

Filter type : Organic vapour type (A)

Protective measures : Ensure that eye flushing systems and safety showers are

located close to the working place.

Do not wear contact lenses.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : amber

Odour : characteristic

pH : Not applicable

Melting point/freezing point : lower -15 °C

according to Regulation (EC) No. 1907/2006



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Boiling point/boiling range : 130 - 210 °C

Flash point : 35 °C

Upper explosion limit : 7 %(V)

Lower explosion limit : 0,8 %(V)

Relative vapour density : upper 1(Air = 1.0)

Density : 1.000 g/l (20 °C)

Solubility(ies)

Water solubility : immiscible

Partition coefficient: n-

octanol/water

: No data available

#### 9.2 Other information

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Keep away from oxidizing agents, strongly acid or alkaline

materials and amines.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases

Strong oxidizing agents Strong reducing agents

Alkali metals

Alkaline earth metals

#### 10.6 Hazardous decomposition products

Hazardous decomposition

products

Stable under recommended storage conditions.

Heating can release vapours which can be ignited.

Burning produces noxious and toxic fumes.

Carbon dioxide (CO2), carbon monoxide (CO), oxides of

according to Regulation (EC) No. 1907/2006



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nitrogen (NOx), dense black smoke.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

### **Acute toxicity**

**Product:** 

Acute oral toxicity : Remarks: No data available

# **Components:**

### low boiling point hydrogen treated naphtha:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC50 (Rat): 4,951 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

### Skin corrosion/irritation

**Product:** 

Remarks: No data available

# Serious eye damage/eye irritation

**Product:** 

Remarks: No data available

### Respiratory or skin sensitisation

**Product:** 

Remarks: No data available

according to Regulation (EC) No. 1907/2006



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Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Repeated dose toxicity

**Product:** 

Remarks: No data available

**Aspiration toxicity** 

**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

aquatic invertebrates

## **Components:**

low boiling point hydrogen treated naphtha:

Toxicity to fish : LL50 (Fish): > 10 - < 30 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 22 - < 46 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): >

1.000 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

### 12.2 Persistence and degradability

#### **Product:**

according to Regulation (EC) No. 1907/2006



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Biodegradability : Remarks: No data available

### Components:

# low boiling point hydrogen treated naphtha:

Biodegradability : Result: Readily biodegradable

Method: OECD Test Guideline 301F

GLP: yes

Remarks: Readily biodegradable, according to appropriate

OECD test.

### 12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: This mixture contains no substance considered to

be persistent, bioaccumulating and toxic (PBT).

This mixture contains no substance considered to be very

persistent and very bioaccumulating (vPvB).

### 12.4 Mobility in soil

No data available

### 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

No data available

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.

The product should not be allowed to enter drains, water

courses or the soil.

Container hazardous when empty.

Dispose of in accordance with local regulations.

Can be incinerated, when in compliance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

### **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID/ADN : UN 1263

according to Regulation (EC) No. 1907/2006



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IMDG : UN 1263 IATA : UN 1263

14.2 UN proper shipping name

ADR/RID/ADN : PAINT
IMDG : PAINT
IATA : Paint

14.3 Transport hazard class(es)

ADR/RID/ADN : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR/RID/ADN

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

**IMDG** 

Packing group : III Labels : 3

EmS Code : F-E, <u>S-E</u>

**IATA** 

Packing instruction (cargo : 366

aircraft)

Packing instruction : 355

(passenger aircraft)

Packing group : III Labels : 3

14.5 Environmental hazards

ADR/RID/ADN

Environmentally hazardous : no

IMDG

Marine pollutant : no

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.

according to Regulation (EC) No. 1907/2006



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# **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

: low boiling point hydrogen treated

naphtha

Xylene, mixture of isomers

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: This product does not contain substances of very high concern

(Regulation (EC) No

1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

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

Quantity 1 50.000 t 5.000 t

Quantity 2

P<sub>5</sub>c FLAMMABLE LIQUIDS

2.500 t

25.000 t

34 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),(d)

heavy fuel oils

# 15.2 Chemical Safety Assessment

Not applicable

### **SECTION 16: Other information**

### **Full text of H-Statements**

Flammable liquid and vapour. H226

May be fatal if swallowed and enters airways. H304

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Chronic Chronic aquatic toxicity Asp. Tox. Aspiration hazard Flam. Liq. Flammable liquids

Specific target organ toxicity - single exposure STOT SE

**Further information** 

Training advice : Provide adequate information, instruction and training for

operators.

according to Regulation (EC) No. 1907/2006



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