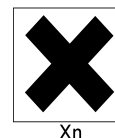


Safety Data Sheet

ELMOTHERM 073-1010



Xn

Safety Data Sheet dated 28/4/2009, version 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name: ELMOTHERM 073-1010
Trade code: I0731010
Product type and use: INSULATING VARNISH
Company:
ELANTAS Deatech Srl - Zona Industriale Campolungo, 35 - 63100 Ascoli Piceno - ITALY
Tel. +39 0736 3081 - Fax +39 0736 402746
Emergency telephone number of the company and/or of an authorised advisory centre:
ELANTAS Deatech Srl - tel. +39 0736 3081 - fax +39 0736 402746

Competent person responsible for the safety data sheet:
MSDS.ELANTAS.Deatech@altana.com

2. HAZARDS IDENTIFICATION

The product is a liquid that can catch fire at temperatures in excess of 21 °C if exposed to an ignition source.
The product is harmful following acute exposure to it and poses a serious health threat if inhaled or brought into contact with the skin.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

30% - 40% xylene

N.67/548/CEE: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7
Xn,Xi; R10-20/21-38

5% - 7% ethylbenzene

N.67/548/CEE: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4
F,Xn; R11-20

3% - 5% solvent naphtha (petroleum), light aromatic

N.67/548/CEE: 649-356-00-4 CAS: 64742-95-6 EC: 265-199-0
Xn,N; R10-51-53-65

3% - 5% 1,2,4-trimethylbenzene

N.67/548/CEE: 601-043-00-3 CAS: 95-63-6 EC: 202-436-9
Xn,Xi,N; R10-20-36/37/38-51-53

1% - 3% butan-1-ol; n-butanol

N.67/548/CEE: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6
Xn,Xi; R10-22-37/38-41-67

1% - 3% 1,3,5-trimethylbenzene

N.67/548/CEE: 601-025-00-5 CAS: 108-67-8 EC: 203-604-4

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Xi,N; R10-37-51-53

1% - 3% propylbenzene [2]

N.67/548/CEE: 601-024-00-X CAS: 103-65-1 EC: 203-132-9

Xn,Xi,N; R10-37-51-53-65

0.5% - 1% melamine-formaldehyde resin, methylated

CAS: 68002-20-0

Xi; R43-52-53

800 mg/kg morpholine

N.67/548/CEE: 613-028-00-9 CAS: 110-91-8 EC: 203-815-1

Xn,C; R10-20/21/22-34

38 mg/kg formaldehyde

N.67/548/CEE: 605-001-00-5 CAS: 50-00-0 EC: 200-001-8

Carc. Cat. 3,T,Xi,C; R23/24/25-34-40-43

15 mg/kg methanol

N.67/548/CEE: 603-001-00-X CAS: 67-56-1 EC: 200-659-6

F,T; R11-23/24/25-39/23/24/25

Solvent naphta: the classification 'Carcinogenic' need not apply because the substance contains less than 0,1% w/w of benzene (EINECS No 200-753-7) (Note P).

4. FIRST AID MEASURES

Contact with skin:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes:

Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).

Wash immediately with water for at least 10 minutes.

Swallowing:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

Give liquid paraffin to drink; do not give milk or animal or vegetable fats of any kind.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

5. FIRE-FIGHTING MEASURES

Recommended extinguishing agents:

In case of fire, use fire-extinguisher by foam (fluoroproteinic or alcohol resistant foam),

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dust and CO₂.

Extinguishing agents not to be used:

Water jet - risk of propagation of the flame

Risks arising from combustion:

During combustion the preparation may release carbon dioxide, carbon monoxide, nitrogen oxides and black, dense smoke.

Avoid inhaling the fumes.

Product is flammable. Cool down the containers exposed to the fire with water to prevent bursting.

Protective equipment for fire-fighting personnel:

Personal protection typical in case of fire. Wear suitable respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use a mask, gloves and protective clothing.

Keep other people out. Avoid contact with skin and eyes. Do not breathe vapours. Keep the proper ventilation. See section 8.

Environmental measures:

Do not allow the product to contaminate surface, water/ground water. Limit leakages with earth or sand.

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

Rapidly recover the product. To do so, wear a mask and protective clothing.

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

Takes precautionary measures against static discharges - ground connect all equipment.

Wear antistatic protective clothes.

Do not eat or drink while working.

Do not smoke while working.

Incompatible materials:

None in particular.

Storage conditions:

Always keep the containers tightly closed.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Instructions as regards storage premises:

Cool and adequately ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Precautionary measures:

Use the product in accordance with good occupational hygiene and safety practices.
Before break and after work carefully wash hands. Take off dirty cloth immediately. Avoid contact with skin and eyes. When handling do not eat, drink or smoke, take a medicine.
Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

If - in consequence of the evaluation made by the final user - there is a risk of exposure, use adequate protective respiratory equipment, e.g. mask with an organic vapour type A2 filter.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., viton or nitrile rubber.

Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Components with Occupational Exposure Limit(s), that require monitoring at the workplace (ACGIH):

xylene

VLE 8h: 221 mg/m³ - 50 ppm VLE short: 442 mg/m³ - 100 ppm TLV TWA: 100 ppm, A4 - 434,19 mg/m³, A4 TLV STEL: 150 ppm, A4 - 651,29 mg/m³, A4

ethylbenzene

VLE 8h: 442 mg/m³ - 100 ppm VLE short: 884 mg/m³ - 200 ppm TLV TWA: 100 ppm, A3 - 434,19 mg/m³, A3 Skin TLV STEL: 125 ppm, A3 - 542,74 mg/m³, A3 Skin

1,2,4-trimethylbenzene

VLE 8h: 100 mg/m³ - 20 ppm

butan-1-ol; n-butanol

TLV TWA: 20 ppm - 60,63 mg/m³ TLV STEL: (C 5 ppm) - (C152 mg/m³) skin

1,3,5-trimethylbenzene

VLE 8h: 100 mg/m³ - 20 ppm

morpholine

TLV TWA: 20 ppm, A4 - 71,26 mg/m³, A4 Skin TLV STEL: A4 Skin

formaldehyde

TLV TWA: A2 SEN TLV STEL: C 0,3 ppm - C 0,37 mg/m³, A2 SEN

methanol

TLV TWA: 200 ppm - 262,09 mg/m³ Skin TLV STEL: 250 ppm - 327,61 mg/m³ Skin

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Amber liquid
Odour:	Typical
pH:	N.A.
Melting point:	N.A.
Boiling point:	139 °C
Flash point:	27 °C
Solid/gas flammability:	N.A.
Autoignition temperature:	527 °C

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Explosive properties:	LEL 1% - UEL 7%
Oxidizing properties:	NO
Vapour pressure:	N.A.
Relative density:	1000 g/l @ 20°C
Solubility in water:	NO
Lipid solubility:	N.A.
Partition c. (n-octanol/H ₂ O):	N.A.
Vapour density (air= 1):	>1

10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions. Avoid high temperature.

Substances to avoid:

Keep away from oxidizing agents, sources of ignition and heat. The product could catch fire.

Hazardous decomposition products:

None.

See also Section 5

11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Set out below is the toxicological information relating to the main substances in the preparation. xylene

LD50 (RAT) ORAL: 5000 MG/KG

ethylbenzene

LD50 (RAT) ORAL: 3500 MG/KG

LD50 (RAT) ORAL: 4710 MG/KG BW

1,2,4-trimethylbenzene

LD50 (RAT) ORAL: 7000 MG/KG BW

12. ECOLOGICAL INFORMATION

Adopt good working practices, so that the product is not released into the environment.

List of substances dangerous for the environment and corresponding classification:

3% - 5% solvent naphtha (petroleum), light aromatic

N.67/548/CEE: 649-356-00-4 CAS: 64742-95-6 EC: 265-199-0

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3% - 5% 1,2,4-trimethylbenzene

N.67/548/CEE: 601-043-00-3 CAS: 95-63-6 EC: 202-436-9

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

1% - 3% 1,3,5-trimethylbenzene

N.67/548/CEE: 601-025-00-5 CAS: 108-67-8 EC: 203-604-4

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R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

1% - 3% propylbenzene [2]

N.67/548/CEE: 601-024-00-X CAS: 103-65-1 EC: 203-132-9

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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

Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.


14. TRANSPORT INFORMATION

ADR-UN Number:	1263
ADR-Class:	3
ADR-HI number:	30
ADR-Shipping Name:	PAINT or PAINT RELATED MATERIAL
ADR-Packing Group:	III
ADR-S.P.:	640E
IATA-UN Number:	1263
IATA-Class:	3
IATA-Shipping Name:	PAINT or PAINT RELATED MATERIAL
IATA-Passenger Aircraft:	309
IATA-Cargo Aircraft:	310
IATA-Label:	Flamm. Liquid
IATA-Packing group:	III
IATA-ERG:	3L
IMDG-Marine pollutant:	Marine Pollutant
IMDG-UN Number:	1263
IMDG-Class:	3
IMDG-Shipping Name:	PAINT or PAINT RELATED MATERIAL
IMDG-Packing group:	III
IMDG-EmS:	F-E , <u>S-E</u>
IMDG-Storage category:	A

15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Council Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparations) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH).

Symbols:

 Xn Harmful

R Phrases:

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R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases:

S25 Avoid contact with eyes.

S36/37 Wear suitable protective clothing and gloves.

S43 In case of fire, use fire-extinguisher by foam (fluoroproteinic or alcohol resistant foam), dust and CO₂.

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

S7 Keep container tightly closed.

Contents:

xylene

melamine-formaldehyde resin, methylated: May produce an allergic reaction.

Solvent Naphta: the classification 'Carcinogenic' need not apply because the substance contains less than 0,1% w/w of benzene (EINECS No 200-753-7) (Note P).

Where applicable, refer to the following regulatory provisions :

Directive 96/82/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

The product fulfils the Directive 2002/95/EC (RoHS)

The product does not contain by recipe polycyclic aromatic hydrocarbons (PAH)

Raw materials of the product are pre-registered according to the Regulation (EC) No 1907/2006 (REACH)

The product does not contain by recipe substances listed in Art. 57 / Annex XIV of the Regulation (EC) No 1907/2006, from 9th of Oct. 2008 (SVHC)

16. OTHER INFORMATION

Text of R phrases referred to under heading 3:

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R22 Harmful if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R36/37/38 Irritating to eyes, respiratory system and skin.

R37 Irritating to respiratory system.

R37/38 Irritating to respiratory system and skin.

R38 Irritating to skin.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.

Paragraphs modified from the previous revision:

3. COMPOSITION/INFORMATION ON INGREDIENTS
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
15. REGULATORY INFORMATION

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold
ACGIH - Threshold Limit Values - 2004 edition
ADR 2009

The information contained herein is based on our state of knowledge at the above-specified date.
It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect
to the specific use intended.

This MSDS cancels and replaces any preceding release.
