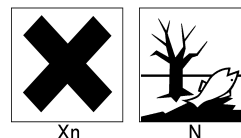


Safety Data Sheet

ELMOTHERM 011-0796



Safety Data Sheet dated 9/6/2009, version 10

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

Trade name: ELMOTHERM 011-0796
Trade code: I0110796
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.
If brought into contact with the eyes, the product causes irritation that may last for over 24 hours, and if brought into contact with the skin it causes significant inflammation with erythema, scabs, and oedema.
The product is harmful: may cause lung damage if swallowed.
Toxic 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% 1-methoxy-2-propanol
N.67/548/CEE: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1
R10; substance with a Community workplace exposure limit
- 25% - 30% epoxy resin (number average molecular weight <= 700)
N.67/548/CEE: 603-074-00-8 CAS: 25068-38-6 EC: 500-033-5
Xi,N; R36/38-43-51-53
- 12.5% - 15% 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
- 5% - 7% 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
- 3% - 5% xylene
N.67/548/CEE: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7
Xn,Xi; R10-20/21-38

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0.25% - 0.5% phosphoric acid conc.

N.67/548/CEE: 015-011-00-6 CAS: 7664-38-2 EC: 231-633-2
C; R34

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:

Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. OBTAIN A MEDICAL EXAMINATION.

Swallowing:

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

A suspension of activated charcoal in water, or liquid paraffin may be administered.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, OBTAIN MEDICAL ATTENTION.

5. FIRE-FIGHTING MEASURES

Recommended extinguishing agents:

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

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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

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:

Not needed for normal use.

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):

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1-methoxy-2-propanol

VLE 8h: 375 mg/m³ - 100 ppm VLE short: 568 mg/m³ - 150 ppm TLV TWA: 100 ppm
- 368,59 mg/m³ TLV STEL: 150 ppm - 552,88 mg/m³

butan-1-ol; n-butanol

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

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

phosphoric acid conc.

VLE 8h: 1 mg/m³ VLE short: 2 mg/m³ TLV TWA: 0,25 ppm - 1 mg/m³ TLV STEL:
0,75 ppm - 3 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Pale yellow liquid
Odour:	Typical
pH:	N.A.
Melting point:	N/A °C
Boiling point:	>117°C °C
Flash point:	25 °C
Solid/gas flammability:	N/A
Autoignition temperature:	270°C °C
Explosive properties:	LEL 1% UEL 6%
Oxidizing properties:	NO
Vapour pressure:	N.A.
Relative density:	965 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 (aria= 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.

1-methoxy-2-propanol

LD50 (RABBIT) ORAL: 8 G/KG (8000 MG/KG)

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xylene

LD50 (RAT) ORAL: 5000 MG/KG

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:

25% - 30% epoxy resin (number average molecular weight \leq 700)

N.67/548/CEE: 603-074-00-8 CAS: 25068-38-6 EC: 500-033-5

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

12.5% - 15% 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.

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.

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-Label:	3
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:	No
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

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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

 N Dangerous for the environment

R Phrases:

R10 Flammable.

R36/38 Irritating to eyes and skin.

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

R65 Harmful: may cause lung damage if swallowed.

S Phrases:

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 Wear suitable gloves.

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

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

S7 Keep container tightly closed.

Contents:

solvent naphtha (petroleum), light aromatic

epoxy resin (number average molecular weight ≤ 700): 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)

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16. OTHER INFORMATION

Text of R phrases referred to under heading 3:

- R10 Flammable.
- R20/21 Harmful by inhalation and in contact with skin.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R36/38 Irritating to eyes and skin.
- R37/38 Irritating to respiratory system and skin.
- R38 Irritating to skin.
- 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.
- 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
- 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.
