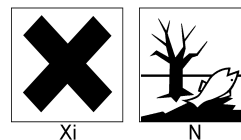


# Safety Data Sheet

## AQUANEL 014-3997/40



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**Safety Data Sheet dated 9/6/2009, version 8**

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

Trade name: AQUANEL 014-3997/40  
Trade code: I014399740  
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

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### 2. HAZARDS IDENTIFICATION

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.  
If brought into contact with the skin, the product may cause sensitisation of the skin.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:  
15% - 20% reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)  
CAS: 28064-14-4  
Xi,N; R36/38-43-51-53  
  
15% - 20% 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  
  
1% - 3% 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane  
N.67/548/CEE: 603-094-00-7 CAS: 17557-23-2 EC: 241-536-7  
Xi; R38-43  
  
1% - 3% boron trichloride amine complex  
CAS: 34762-90-8 EC: 252-200-4  
Xi; R36/37/38

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### 4. FIRST AID MEASURES

Contact with skin:  
Immediately take off all contaminated clothing.

## Safety Data Sheet

### AQUANEL 014-3997/40

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:

Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.

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.

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## 5. FIRE-FIGHTING MEASURES

#### Recommended extinguishing agents:

Spray Water, CO<sub>2</sub>, Foam, Chemical powders, according to the materials involved in the fire.

#### 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.

#### Protective equipment for fire-fighting personnel:

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

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## 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.

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.

# Safety Data Sheet

## AQUANEL 014-3997/40

### 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.

Incompatible materials:

None in particular.

Storage conditions:

Instructions as regards storage premises:

Adequately ventilated premises.

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### 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):

None.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Milky liquid
Odour:	Light
pH:	21°C 8-10
Melting point:	N.A.
Boiling point:	>100 °C
Flash point:	N.A.
Solid/gas flammability:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	NO
Vapour pressure:	N.A.
Relative density:	1000 g/l @ 20°C
Solubility in water:	SOLUBILE
Lipid solubility:	N.A.
Partition c. (n-octanol/H <sub>2</sub> O):	N.A.

# Safety Data Sheet

## AQUANEL 014-3997/40

Vapour density (air= 1): N.A.

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### 10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions. Avoid high temperature.

Substances to avoid:

None in particular.

Hazardous decomposition products:

None.

See also Section 5

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### 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.

boron trichloride amine complex

LD50 ORAL > 5000 mg/kg

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### 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:

15% - 20% reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)

CAS: 28064-14-4

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

15% - 20% epoxy resin (number average molecular weight <= 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.

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### 13. DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Dispose of this material and its container to hazardous or special waste collection point.

Use appropriate container to avoid environmental contamination.

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.

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### 14. TRANSPORT INFORMATION

ADR-UN Number: 3082

ADR-Class: 9

ADR-HI number: 90

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-f-(epichlorhydrin); epoxy

## Safety Data Sheet

### AQUANEL 014-3997/40

resin (number average molecular weight  $\leq 700$ ), epoxy resin (number average molecular weight  $\leq 700$ )

ADR-Packing Group:	III
IATA-UN Number:	3082
IATA-Class:	9
IATA-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-f-(epichlorhydrin); epoxy resin (number average molecular weight $\leq 700$ ), epoxy resin (number average molecular weight $\leq 700$ ))
IATA-Passenger Aircraft:	914
IATA-Cargo Aircraft:	914
IATA-Label:	Miscellaneous
IATA-Packing group:	III
IATA-S.P.:	A97
IATA-ERG:	9L
IMDG-Marine pollutant:	Marine Pollutant
IMDG-UN Number:	3082
IMDG-Class:	9
IMDG-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-f-(epichlorhydrin); epoxy resin (number average molecular weight $\leq 700$ ), epoxy resin (number average molecular weight $\leq 700$ ))
IMDG-Packing group:	III
IMDG-EmS:	F-A , S-F
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:

 Xi Irritant

 N Dangerous for the environment

R Phrases:

R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

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

S Phrases:

S24 Avoid contact with skin.

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

S37 Wear suitable gloves.

S56 Dispose of this material and its container to hazardous or special waste collection point.

## Safety Data Sheet

### AQUANEL 014-3997/40

S57 Use appropriate container to avoid environmental contamination.

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

#### Contents:

reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq 700$ )

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

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:

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

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R43 May cause sensitization by skin contact.

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

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.

**Safety Data Sheet**  
**AQUANEL 014-3997/40**

This MSDS cancels and replaces any preceding release.

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