

# Safety Data Sheet

## ALTROFIX 19 comp. B

Safety Data Sheet dated 16/7/2009, version 6

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

Trade name: ALTROFIX 19 comp. B

Product type and use:

Hardener for epoxy-polyurethane based adhesives or sealants

Supplier:

MAPEI S.p.A. -Via Cafiero 22 - Milan -ITALY

Emergency telephone number of the company and/or of an authorised advisory centre:

MAPEI S.p.A. - Tel. +(39)02376731


Poison Centre - Ospedale di Niguarda - Milan - Tel. +39/02/66101029


Competent person responsible for the safety data sheet:

sicurezza@mapei.it

### 2. HAZARDS IDENTIFICATION

Properties / Symbols:

 Xn Harmful

 Xi Irritant

 C Corrosive

R Phrases:

R21/22 Harmful in contact with skin and if swallowed.

R34 Causes burns.

R43 May cause sensitization by skin contact.

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

The product is harmful following acute exposure to it and poses a serious health threat if ingested or brought into contact with the skin.

The product is corrosive and, if brought into contact with the skin, causes burning, with the destruction of the entire thickness of skin tissue.

If brought into contact with the skin, the product may cause sensitisation of 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:

50% - 60% 3-aminomethyl-3,5,5-trimethylcyclohexylamine

N. EEC/67/548: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8

Xn,Xi,C; R21/22-34-43-52-53

20% - 25% 2,4,6-tris(dimethylaminomethyl)phenol

N. EEC/67/548: 603-069-00-0 CAS: 90-72-2 EC: 202-013-9

Xn,Xi; R22-36/38

7% - 10% benzyl alcohol

N. EEC/67/548: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9

Xn; R20/22

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2.5% - 5% bis[(dimethylamino)methyl]phenol  
CAS: 71074-89-0 EC: 275-162-0  
C; R34

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### 4. FIRST AID MEASURES

Contact with skin:

Immediately take off all contaminated clothing.  
After contact with skin, wash immediately with plenty of water and soap.  
CONSULT A PHYSICIAN IMMEDIATELY.

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.  
Do not use eyewash or ointment of any kind before obtaining an examination or advice from an ophthalmologist.

Swallowing:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.  
Administer water with albumen; do not administer bicarbonate.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. CALL A PHYSICIAN.

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### 5. FIRE-FIGHTING MEASURES

Recommended extinguishers:

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

Extinguishers not to be used:

None in particular.

Risks arising from combustion:

The original ingredients or unidentified toxic and/or irritant compounds may be present in the combustion fumes.  
Nitrogen oxide may be present in the combustion fumes.  
Avoid inhaling the fumes.

Protective equipment:

Use protection for the airways.

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### 6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use a mask, gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

None in particular.

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, wearing 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 disposal. The product might, where appropriate, be absorbed by inert material.

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

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### 7. HANDLING AND STORAGE

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#### Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.  
Do not eat or drink while working.

#### Incompatible materials:

None in particular.

#### Storage conditions:

Always keep the containers tightly closed.

#### Instructions as regards storage premises:

Adequately ventilated premises.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

#### Respiratory protection:

Not needed for normal use.

In case of insufficient ventilation use mask with AK2 filters (EN 141).

In case of insufficient ventilation use mask with AK2 filters (EN 141).

#### Protection for hands:

Use protective rubber gloves.

The use of LLPDE (0,06 mm), nitrile (0,4) or butyl (0,5 mm) gloves is suggested.

Latex gloves are not recommended.

#### Eye protection:

Safety goggles.

#### Protection for skin:

Use clothing that provides comprehensive protection to the skin.

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

#### Exposure limit value of single components:

None

Carry out the control of the concentrations of the substances with exposure limits assigned, in the working place according to local dispositions

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                              |                               |
|------------------------------|-------------------------------|
| Appearance:                  | liquid                        |
| Colour:                      | transparent                   |
| Odour:                       | ammonia                       |
| pH:                          | 10.5-11.5                     |
| Melting point:               | == °C                         |
| Boiling point:               | 127 °C                        |
| Flash point:                 | >100 °C                       |
| Solid/gas flammability:      | N.A.                          |
| Autoignition temperature:    | == °C                         |
| Explosion limits(by volume): | ==                            |
| Oxidizing properties:        | N.A.                          |
| Vapour pressure:             | 0.2 kPa (23°C)                |
| Relative density:            | 0.92 g/cm <sup>3</sup> (23°C) |
| Solubility in water:         | partly soluble                |

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|                         |                 |
|-------------------------|-----------------|
| Lipid solubility:       | soluble         |
| Viscosity:              | 30 mPa.s (23°C) |
| Vapour density (air=1): | 3.6             |

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#### 10. STABILITY AND REACTIVITY

Conditions to avoid:  
Stable under normal conditions.

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth) and powerful reducing agents.

It may generate toxic gases on contact with oxidising mineral acids, halogenated organic substances, organic peroxides and hydroperoxides, and powerful oxidising agents.

It may catch fire on contact with powerful oxidising agents.

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#### 11. TOXICOLOGICAL INFORMATION

Route(s) of entry:

|             |     |
|-------------|-----|
| Ingestion:  | Yes |
| Inhalation: | Yes |
| Contact:    | Yes |

Toxicological information related to the product:

No toxicological data are available at the moment on the product itself.

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

DL50 orale/ratto: 1030 mg/kg

Corrosive/Irritating Properties:

Skin:

Corrosive. The product can cause burns by contact.

Eye:

The product can cause damage to eyes by contact

Sensitizing Properties:

Frequent contact may cause sensitization.

Carcinogenic Effects:

No effects are known.

Mutagenic Effects:

No effects are known.

Teratogenic Effects:

No effects are known.

Additional Information:

Susceptibility to skin irritation and sensitization varies from person to person.

In a sensitized individual the allergic dermatitis may not appear until after several days or weeks of frequent and prolonged contact.

Therefore, even though the skin irritation potential is slight, skin contact should be avoided. Once sensitization has occurred, exposure of the skin to very small quantities of the material may cause erythema and edema.

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#### 12. ECOLOGICAL INFORMATION

Biodegradability: no data available on the preparation.

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

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List of environmentally dangerous substances contained in this preparation and their classification:  
50% - 60% 3-aminomethyl-3,5,5-trimethylcyclohexylamine  
N. EEC/67/548: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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#### 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.  
Disposal of not hardened product (EC waste code) : 08 04 09  
The suggested European waste code is just based on the composition of the product.  
According to the specific process or application field a different waste code may be necessary.

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#### 14. TRANSPORT INFORMATION

|   |            |
|---|------------|
| UN Number:                                  | 2735       |
| Rail/Road(RID/ADR):                         | 8,III      |
| LIMITED QUANTITY (3.4.6. ADR e 3.4.2. IMDG) |            |
| Sea (IMO/IMDG):                             | 8,III      |
| Dangerous goods in limited quantities       |            |
| EMS no:                                     | (F-A, S-B) |
| MAR/POL 73/78,Annex III:                    | No         |
| Air (ICAO/IATA):                            | 8,III      |

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#### 15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) 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:

C Corrosive

R Phrases:

R21/22 Harmful in contact with skin and if swallowed.

R34 Causes burns.

R43 May cause sensitization by skin contact.

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

S Phrases:

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

S28 After contact with skin, wash immediately with plenty of water and soap.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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

Contents:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

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#### 16. OTHER INFORMATION

Main bibliographic sources:

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NIOSH - Registry of toxic effects of chemical substances

Istituto Superiore di Sanità - Inventario Nazionale Sostanze Chimiche  
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities  
ACGIH - Threshold Limit Values - 2004 edition  
SAX'S - Dangerous properties of industrial materials

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.

Text of R phrases referred to under heading 3:

R20/22 Harmful by inhalation and if swallowed.

R21/22 Harmful in contact with skin and if swallowed.

R22 Harmful if swallowed.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

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

Paragraphs modified from the previous revision:

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