

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 06.10.2009

Revision: 06.10.2009

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** FOSTER 81-82 comp. A
- **Application of the substance / the preparation** Glue/ Sizing agent
- **Manufacturer/Supplier:**
 Temati B.V.
 Rijnland 2
 NL-1948 RL Beverwijk
 Tel: +31 251 229 172
 Fax: +31 251 212 380
 E-mail: temati@temati.com
- **Further information obtainable from:** Product safety department.
- **Information in case of emergency:** Tel: +31 251 229 172 (mo-fr/9-17)

2 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information concerning particular hazards for human and environment:**
 The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
 R 20 Harmful by inhalation.
- **Classification system:**
 The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 1305-78-8 EINECS: 215-138-9	Calcium oxide	Xi; R 38-41	1-<5%
CAS: 56-18-8 EINECS: 200-261-2	3,3'-iminopropylamine	T+, C; R 22-24-26-35-43	<1%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **General information:**
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
 In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

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5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Protective equipment:** Mount respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Dispose contaminated material as waste according to item 13.
Pick up mechanically.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

14807-96-6 Talc (Mg₃H₂(SiO₃)₄) (10-<25%)
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WEL ()	Long-term value: 1 mg/m ³
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1305-78-8 Calcium oxide (1-<5%)

WEL ()	Long-term value: 2 mg/m ³
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- **CAS No. Designation of material % Type Value Unit**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- **Respiratory protection:**



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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Preventive skin protection by use of skin-protecting agents is recommended.



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

> 480 min.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Not required.

9 Physical and chemical properties

- **General Information**

Form:	Pasty
Colour:	According to product specification
Odour:	Characteristic

- **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 351°C

- **Flash point:** 255°C (DIN 53213)

- **Flammability (solid, gaseous):** Product is not flammable.

- **Ignition temperature:** 450°C

- **Danger of explosion:** Product does not present an explosion hazard.

- **Vapour pressure At 20°C:** 1 hPa

- **Density At 20°C:** 1.42 g/cm³ (DIN 51757)

- **Solubility in / Miscibility with water:** Insoluble.

- **Solvent content:**

Organic solvents: 0.0 %

- **Solids content:** 99.8 % (DIN 53216)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **Dangerous reactions** No dangerous reactions known.

- **Dangerous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

56-18-8 3,3'-iminopropylamine

Oral	LD50	738 mg/kg (RAT)
Dermal	LD50	110 mg/kg (RABBIT)
Inhalative	LC50/4 h	0.03 mg/l (RAT)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

12 Ecological information

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11	waste paint and varnish containing organic solvents or other dangerous substances

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

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15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

The product has been marked in accordance with EU Directives / respective national laws.

The R and S phrases may be omitted if packaging contains no more than 0.125 litre.

· Code letter and hazard designation of product:



Xn Harmful

· Hazard-determining components of labelling:

3,3'-iminopropylamine

· Risk phrases:

20 Harmful by inhalation.

· Safety phrases:

9 Keep container in a well-ventilated place.

36 Wear suitable protective clothing.

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

· Special labelling of certain preparations:

Contains 3,3'-iminopropylamine. May produce an allergic reaction.

· National regulations:

· Technical instructions (air):

Class	Share in %
I	0.2

· Waterhazard class: *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant R-phrases:

22 Harmful if swallowed.

24 Toxic in contact with skin.

26 Very toxic by inhalation.

35 Causes severe burns.

38 Irritating to skin.

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

· Department issuing MSDS: *Product safety department.*

· Contact: *temati@temati.com*

*** Data compared to the previous version altered.**

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1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** FOSTER 81-82 comp. B
- **Application of the substance / the preparation** Quenchant
- **Manufacturer/Supplier:**
Temati B.V.
Rijnland 2
NL-1948 RL Beverwijk
Tel: +31 251 229 172
Fax: +31 251 212 380
E-mail: temati@temati.com
- **Further information obtainable from:** Product safety department.
- **Information in case of emergency:** Tel: +31 251 229 172

2 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information concerning particular hazards for human and environment:**
R 20 Harmful by inhalation.
R 36/37/38 Irritating to eyes, respiratory system and skin.
R 42/43 May cause sensitisation by inhalation and skin contact.
Contains isocyanates. See information supplied by the manufacturer

3 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**
9016-87-9 Diphenylmethanediisocyanate, isomeres and homologues
- **Identification number(s) ?**

4 First-aid measures

- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Protective equipment:** Mount respiratory protective device.

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6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Dispose contaminated material as waste according to item 13.
Pick up mechanically.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

9016-87-9 Diphenylmethanediisocyanate, isomeres and homologues (50-<100%)

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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- **CAS No. Designation of material % Type Value Unit**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:**



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

- **General Information**

Form:	Liquid
Colour:	Amber coloured
Odour:	Characteristic

- **Change in condition**

Melting point/Melting range: 41°C
Boiling point/Boiling range: 190°C

- **Flash point:** 201°C (DIN 53213)

- **Flammability (solid, gaseous):** Product is not flammable.

- **Ignition temperature:** 400°C

- **Danger of explosion:** Product does not present an explosion hazard.

- **Vapour pressure At 25°C:** 0.0002 hPa

- **Density At 20°C:** 1.23 g/cm³ (DIN 51757)

- **Solubility in / Miscibility with water:** Insoluble.

- **Viscosity:**

Dynamic At 20°C:	220 mPas
Organic solvents:	0.0 %

- **Solids content:** 100.0 % (DIN 53216)

- **Additional information:**

VOC (EU):	0.00 %
VOC (EU):	g/l

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **Dangerous reactions** No dangerous reactions known.

- **Dangerous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

9016-87-9 Diphenylmethanediisocyanate, isomers and homologues

Oral LD50	>2000 mg/kg (RAT)
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- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

- **Sensitisation** May cause sensitisation by inhalation and skin contact.

12 Ecological information

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
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08 05 00	wastes not otherwise specified in 08
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08 05 01	waste isocyanates
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- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

15 Regulatory information

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

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Trade name: **FOSTER 81-82 comp. B**

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· **Code letter and hazard designation of product:**

Xn Harmful

· **Risk phrases:**

- 20 Harmful by inhalation.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 42/43 May cause sensitisation by inhalation and skin contact.

· **Safety phrases:**

- 22 Do not breathe dust.
- 24 Avoid contact with skin.
- 37 Wear suitable gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 51 Use only in well-ventilated areas.
- 60 This material and its container must be disposed of as hazardous waste.

· **Special labelling of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer

· **National regulations:**· **Technical instructions (air):**

Class	Share in %
I	99.0

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Product safety department.
- **Contact:** temati@temati.com
- *** Data compared to the previous version altered.**