

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.10.2009

Revision: 09.10.2009

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

- **Product details**
- **Trade name:** Foster 82-77 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:**



*Xi Irritant*  
*N Dangerous for the environment*

- **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 36/38 Irritating to eyes and skin.

R 43 May cause sensitisation by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Contains epoxy constituents. See information supplied by the manufacturer.

- **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:**

	Reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq 700$ ) Xi,  N; R 36/38-43-51/53	50-<100%
CAS: 26761-45-5 EINECS: 247-979-2	2,3-epoxypropyl neodecanoat Xi,  N; R 43-51/53	10-<25%
CAS: 107-21-1 EINECS: 203-473-3	Ethane-1,2-diol Xn; R 22	<1%

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

## 4 First-aid measures

- **General information:** No special measures required.
- **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.

(Contd. on page 2)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.10.2009

Revision: 09.10.2009

Trade name: Foster 82-77 comp. A

(Contd. of page 1)

- **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:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **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:**

<b>107-21-1 Ethane-1,2-diol (&lt;1%)</b>	
WEL ()	Short-term value: 104** mg/m <sup>3</sup> , 40** ppm
	Long-term value: 10* 52** mg/m <sup>3</sup> , 20** ppm
	Sk *particulate **vapour

- **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.

(Contd. on page 3)

GB

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.10.2009

Revision: 09.10.2009

Trade name: Foster 82-77 comp. A

(Contd. of page 2)

· **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 penetrati on 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.

· **Material of gloves**

Butyl rubber, BR (0,45 mm)

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

Goggles recommended during refilling

· **Body protection:** Use protective suit.

## 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	Black
<b>Odour:</b>	Characteristic

· **Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 278°C

· **Flash point:** 126°C (DIN 53213)

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

· **Density At 20°C:** 1.15 g/cm<sup>3</sup> (DIN 51757)

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· **pH-value At 20°C:** 7

· **Viscosity:**  
**Dynamic At 20°C:** 90000 mPas

(Contd. on page 4)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.10.2009

Revision: 09.10.2009

Trade name: Foster 82-77 comp. A

(Contd. of page 3)

· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
· <b>Solids content:</b> 5.1 % (DIN 53216)	
· <b>Additional information:</b>	
<b>VOC (EU):</b>	0.00 %
<b>VOC (EU):</b>	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.

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **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:  
Irritant
- **Sensitisation** May cause sensitisation by skin contact.

## 12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

## 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 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 99	wastes not otherwise specified

(Contd. on page 5)

GB

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.10.2009

Revision: 09.10.2009

Trade name: Foster 82-77 comp. A

(Contd. of page 4)

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

## 14 Transport information

### · Land transport ADR/RID (cross-border)



- **ADR/RID class:** 9 Miscellaneous dangerous substances and articles.
- **Danger code (Kemler):** 90
- **UN-Number:** 3082
- **Packaging group:** III
- **Hazard label:** 9
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N. O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700), 2,3-epoxypropyl neodecanoat)
- **Limited quantities (LQ)** LQ7
- **Transport category** 3
- **Tunnel restriction code** E

### · Maritime transport IMDG:



- **IMDG Class:** 9
- **UN Number:** 3082
- **Label** 9
- **Packaging group:** III
- **EMS Number:** F-A,S-F
- **Marine pollutant:** Yes
- **Special marking:** Symbol (fish and tree)
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700), 2,3-epoxypropyl neodecanoat)

### · Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3082
- **Label:** 9
- **Special marking:** Symbol (fish and tree)
- **Packaging group:** III
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700), 2,3-epoxypropyl neodecanoat)

(Contd. on page 6)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.10.2009

Revision: 09.10.2009

Trade name: Foster 82-77 comp. A

(Contd. of page 5)

· **Transport/Additional information:**

For ADR and IMDG: Transport and packing are in accordance with the regulation for limited quantities. These products are therefore classified as no dangerous goods.

## 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:**



Xi Irritant

N Dangerous for the environment

· **Hazard-determining components of labelling:**

Reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq 700$ )  
2,3-epoxypropyl neodecanoat

· **Risk phrases:**

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

24 Avoid contact with skin.

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

37 Wear suitable gloves.

57 Use appropriate container to avoid environmental contamination.

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

· **Special labelling of certain preparations:**

Contains epoxy constituents. See information supplied by the manufacturer.

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
NK	1.0

· **Waterhazard class:** Water hazard class 2 (Self-assessment): 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.

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Department issuing MSDS:** Product safety department.

· **Contact:** temati@temati.com

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

# Material Safety Data Sheet

## According to 93/112 EG

Printing date 09.10.2009

Reviewed on 09.10.2009








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

- **Product details**
- **Trade name: Foster 82-77 comp. B**
- **Application of the substance / the preparation** Epoxy curing agent
- **Manufacturer/Supplier:**  
Temati B.V.  
Salland 5  
NL-1948 RE Beverwijk  
Tel: +31 251 229 172  
Fax: +31 251 212 380  
E-mail: [beverwijk@temati.nl](mailto:beverwijk@temati.nl)
- **Further information obtainable from:** Product safety department.
- **Information in case of emergency:** Tel: +31 251 229 172

### 2 Composition/information on ingredients

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

· **Dangerous components:**

CAS: 68953-36-6 EINECS: 273-201-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine  C; R 21/22-34-43	50-75%
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine)  C; R 20/22-34	10-25%
CAS: 84852-15-3 EINECS: 284-325-5	4-nonylphenol, branched  C,  N; R 22-34-50/53	10-25%
CAS: 112-57-2 EINECS: 203-986-2	3,6,9-triazaundecamethylenediamine  C,  N; R 21/22-34-43-51/53	2.5-10%
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine  C; R 21/22-34-43-52/53	2.5-10%

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

### 3 Hazards identification

· **Hazard description:**



C Corrosive  
N Dangerous for the environment

· **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 21/22 Harmful in contact with skin and if swallowed.

R 34 Causes burns.

R 43 May cause sensitisation by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 4 First-aid measures

· **General information:**

Immediately remove any clothing soiled by the product.

(Contd. on page 2)

# Material Safety Data Sheet

## According to 93/112 EG

Printing date 09.10.2009

Reviewed on 09.10.2009

**Trade name: Foster 82-77 comp. B**

(Contd. of page 1)

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.

Immediately rinse with water.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
  - Inform respective authorities in case of seepage into water course or sewage system.
  - Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Use neutralizing agent.
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.
- **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:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **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.

(Contd. on page 3)

# Material Safety Data Sheet

## According to 93/112 EG

Printing date 09.10.2009

Reviewed on 09.10.2009

**Trade name: Foster 82-77 comp. B**

(Contd. of page 2)

Avoid close or long term contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Protection of hands:**

Protective gloves

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

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

· **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. 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

Goggles recommended during refilling

· **Body protection:** Use protective suit.

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Dark orange colour
<b>Odour:</b>	Characteristic

### · Change in condition

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 265°C

· **Flash point:** 163°C (DIN 53213)

· **Self-igniting:** Product is not selfigniting.

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

· **Density At 20°C:** 0.970 g/cm<sup>3</sup> (DIN 51757)

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

### · Solvent content:

**Organic solvents:** 0.0 %

· **Solids content:** 99.3 % (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.

(Contd. on page 4)

# Material Safety Data Sheet

## According to 93/112 EG

Printing date 09.10.2009

Reviewed on 09.10.2009

Trade name: Foster 82-77 comp. B

(Contd. of page 3)

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

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** Sensitization possible through skin contact.
- **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  
Corrosive  
Irritant  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **General notes:**  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Must not reach sewage water or drainage ditch undiluted or unneutralized.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

### 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 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 99	wastes not otherwise specified

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

### 14 Transport information

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



- **ADR/RID class:** 8 Corrosive substances.
- **Danger code (Kemler):** 80

(Contd. on page 5)

# Material Safety Data Sheet

## According to 93/112 EG

Printing date 09.10.2009

Reviewed on 09.10.2009

Trade name: Foster 82-77 comp. B

(Contd. of page 4)

· **UN-Number:** 1760  
 · **Packaging group:** III  
 · **Hazard label** 8  
 · **Description of goods:** 1760 CORROSIVE LIQUID, N.O.S. (m-phenylenebis(methylamine), TETRAETHYLENEPENTAMINE)

· **Maritime transport IMDG:**



· **IMDG Class:** 8  
 · **UN Number:** 1760  
 · **Label** 8  
 · **Packaging group:** III  
 · **EMS Number:** F-A,S-B  
 · **Marine pollutant:** No  
 · **Proper shipping name:** CORROSIVE LIQUID, N.O.S. (m-phenylenebis(methylamine), TETRAETHYLENEPENTAMINE)

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



· **ICAO/IATA Class:** 8  
 · **UN/ID Number:** 1760  
 · **Label** 8  
 · **Packaging group:** III  
 · **Proper shipping name:** CORROSIVE LIQUID, N.O.S. (m-phenylenebis(methylamine), TETRAETHYLENEPENTAMINE)

· **Transport/Additional information:**

For ADR and IMDG: Transport and packing are in accordance with the regulation for limited quantities. These products are therefore classified as no dangerous goods.

### 15 Regulatory information

· **Labelling according to EU guidelines:**

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

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



C Corrosive  
 N Dangerous for the environment

· **Hazard-determining components of labelling:**

Fatty acids, tall-oil, reaction products with tetraethylenepentamine  
 3,6,9-triazaundecamethylenediamine  
 3-aminomethyl-3,5,5-trimethylcyclohexylamine  
 m-phenylenebis(methylamine)  
 4-nonylphenol, branched

· **Risk phrases:**

21/22 Harmful in contact with skin and if swallowed.  
 34 Causes burns.  
 43 May cause sensitisation by skin contact.

(Contd. on page 6)

# Material Safety Data Sheet

## According to 93/112 EG

Printing date 09.10.2009

Reviewed on 09.10.2009

**Trade name: Foster 82-77 comp. B**

(Contd. of page 5)

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

- 9        Keep container in a well-ventilated place.
- 24/25    Avoid contact with skin and eyes.
- 26        In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28        After contact with skin, wash immediately with plenty of water.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 51        Use only in well-ventilated areas.
- 61        Avoid release to the environment. Refer to special instructions/safety data sheets.

· **National regulations:**

- **Waterhazard class:** Water hazard class 3 (Self-assessment): extremely 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:**

- 20/22 Harmful by inhalation and if swallowed.
- 21/22 Harmful in contact with skin and if swallowed.
- 22        Harmful if swallowed.
- 34        Causes burns.
- 43        May cause sensitisation by skin contact.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Department issuing MSDS:** Product safety department.

· **Contact:** Mr. R. van Rijswijk

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

# Material Safety Data Sheet

## According to 93/112 EG

Printing date 09.10.2009

Reviewed on 09.10.2009

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

- **Product details**
- **Trade name:** *Foster 82-77 comp. C*
- **Application of the substance / the preparation** *Filler/ Extender*
- **Manufacturer/Supplier:**  
*Temati B.V.*  
*Salland 5*  
*NL-1948 RE Beverwijk*  
*Tel: +31 251 229 172*  
*Fax: +31 251 212 380*  
*E-mail: beverwijk@temati.nl*
- **Further information obtainable from:** *Product safety department.*
- **Information in case of emergency:** *Tel: +31 251 229 172*

### 2 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**  
*14808-60-7 Quartz (SiO<sub>2</sub>)*
- **Identification number(s)**
- **EINECS Number:** *238-878-4*

### 3 Hazards identification

- **Hazard description:** *Not applicable.*
- **Information concerning particular hazards for human and environment:** *Not applicable.*

### 4 First-aid measures

- **General information:** *No special measures required.*
- **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*
- **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.*

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **Protective equipment:** *No special measures required.*

### 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:** *Pick up mechanically.*
- **Additional information:** *No dangerous substances are released.*

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** *Prevent formation of dust.*
- **Information about fire - and explosion protection:** *No special measures required.*

(Contd. on page 2)

GB

# Material Safety Data Sheet

## According to 93/112 EG

Printing date 09.10.2009

Reviewed on 09.10.2009

Trade name: Foster 82-77 comp. C

(Contd. of page 1)

- **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:** None.

### 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:** Not required.
- **CAS No. Designation of material % Type Value Unit** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **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:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
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
- **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.
- **Penetration time of glove material**  
The exact break trough 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

<b>Form:</b>	Solid
<b>Colour:</b>	Whitish
<b>Odour:</b>	Characteristic

#### · Change in condition

<b>Melting point/Melting range:</b>	1713°C
<b>Boiling point/Boiling range:</b>	2230°C

· **Flash point:** Not applicable.

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

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

· **Vapour pressure At 1732°C:** 13.5 hPa

· **Density At 20°C:** 2.2-2.6 g/cm<sup>3</sup> (DIN 51757)

· **Bulk density At 20°C:** 1400 kg/m<sup>3</sup>

#### · Solubility in / Miscibility with

<b>water:</b>	Insoluble.
<b>Organic solvents:</b>	0.0 %

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

(Contd. on page 3)

# Material Safety Data Sheet

## According to 93/112 EG

Printing date 09.10.2009

Reviewed on 09.10.2009

Trade name: Foster 82-77 comp. C

(Contd. of page 2)

- **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.

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.  
The substance is not subject to classification according to the latest version of the EU lists.

### 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** Smaller quantities can be disposed of with household waste.

- **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 02 00	wastes from MFSU of other coatings (including ceramic materials)
08 02 99	wastes not otherwise specified

- **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

(Contd. on page 4)

# Material Safety Data Sheet

## According to 93/112 EG

Printing date 09.10.2009

Reviewed on 09.10.2009

**Trade name: Foster 82-77 comp. C**

(Contd. of page 3)

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

· **Transport/Additional information:** Not dangerous according to the above specifications.

### 15 Regulatory information

- **Labelling according to EU guidelines:**

The substance is not subject to classification according to EU lists and other sources of literature known to us.

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

- **Safety phrases:**

9 Keep container in a well-ventilated place.

22 Do not breathe dust.

51 Use only in well-ventilated areas.

- **National regulations:**

· **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.

GB