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

- **Product identifier**
- **Trade name**: Amosil 4H
- **Relevant identified uses of the substance or mixture and uses advised against**
  - **Application of the substance / the preparation** Special Glue Part B
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier**: SOLARONIX SA
    - Rue de l'Ouriette 129, CH-1170 Aubonne, Switzerland
    - info@solaronix.com
    - T +41 21 821 22 80
    - www.solaronix.com
    - F +41 21 821 22 89
    - info@solaronix.com
  - **Emergency telephone number**: Swiss Toxicological Information Center: +41 44 251 51 51

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
  - GHS05 corrosion
    - Skin Corr. 1B H314 Causes severe skin burns and eye damage.
  - GHS07
    - Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  - Xi; Irritant
    - R36/38: Irritating to eyes and skin.
  - Xi; Sensitising
    - R43: May cause sensitisation by skin contact.

**Information concerning particular hazards for human and environment:**
The product has to be labelled in the latest valid version according to the calculation procedure of the "General Classification guideline for preparations of the EU".

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

**Label elements**

**Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**

GHS05  GHS07

(Contd. on page 2)
Trade name: **Amosil 4H**

**Signal word** Danger

- **Hazard-determining components of labelling:**
  - 2,2'-iminodiethylamine

- **Hazard statements**
  - H314 Causes severe skin burns and eye damage.
  - H317 May cause an allergic skin reaction.

- **Precautionary statements**
  - P260 Do not breathe dust/fume/gas/mist/vapours/spray.
  - P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 Immediately call a POISON CENTER or doctor/physician.
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture: consisting of the following components.

#### Dangerous components:

<table>
<thead>
<tr>
<th>CAS: 111-40-0</th>
<th>2,2'-iminodiethylamine</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 203-865-4</td>
<td>C R34; Xn R21/22; Xi R43</td>
</tr>
<tr>
<td></td>
<td>Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

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

### 4 First aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After excessive inhalation:**
  - Supply fresh air and to be sure call for a doctor.
  - In case of unconsciousness place patient in a stable laying down 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 a doctor.
- **Information for doctor:**
  - **Most important symptoms and effects, both acute and delayed**
    - No further relevant information available.
  - **Indication of any immediate medical attention and special treatment needed**
    - No further relevant information available.

(Contd. on page 3)
5 Firefighting measures

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protective equipment. See Section 13 for disposal information.

7 Handling and storage

- Handling: No special precautions are necessary if used correctly.
- Precautions for safe handling: No special measures required.
- Information about fire - and explosion protection: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage: No special requirements.
- 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.
- Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see section 7.
- Control parameters

<table>
<thead>
<tr>
<th>Ingredients with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-40-0 2,2’-iminodiethylamine (2.5-10%)</td>
</tr>
<tr>
<td>WEL (Great Britain)</td>
</tr>
<tr>
<td>Long-term value: 4.3 mg/m³, 1 ppm Sk</td>
</tr>
</tbody>
</table>

- Additional information:
  As a basis for the production of this document, the most current valid lists were used.
- Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures: Keep away from food, beverages and petfood. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
Trade name: Amosil 4H

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.
- **Gloves material**: The selection of suitable gloves does not only depend on the material, but also on further marks of quality which may vary 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 before use.
- **Eye protection**: Tightly sealed goggles

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance**:
    - Form: Pasty
    - Colour: Beige
    - Odour: Amine-like
    - Odour threshold: Not determined.
  - **pH-value (10 g/l) at 20°C**: 11
  - **Change in condition**
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: > 200°C
  - **Flash point**: 124°C
  - **Flammability (solid, gaseous)**: Not applicable.
  - **Ignition temperature**: 325°C
  - **Decomposition temperature**: Not determined.
  - **Self-igniting**: Product is not self igniting.
  - **Danger of explosion**: Product does not present an explosion hazard.
  - **Explosion limits**:
    - Lower: Not determined.
    - Upper: Not determined.
  - **Vapour pressure**: Not determined.
  - **Density**: Not determined.

(Contd. of page 3)
10 Stability and reactivity

- Reactivity
  - Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions: No dangerous reactions known.
  - Conditions to avoid: No further relevant information available.
  - Incompatible materials: No further relevant information available.
  - Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values relevant for classification:
      111-40-0 2,2'-iminodiethyldiamine
      |             |       |
      | Oral        | Dermal|
      | LD50        | LD50  |
      | 1080 mg/kg  | 1090 mg/kg (rat) |

  - 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 hazards according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
Trade name: **Amosil 4H**

- **Behaviour in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
  - **Additional ecological information:**
  - **General notes:**
    Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

  Do not allow product to reach groundwater, water course or sewage system.

  Danger to drinking water if even small quantities leak into the ground.

- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
  - **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation**

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

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

### 14 Transport information

- **Land transport ADR/RID (cross-border):**
  - **ADR/RID class:** 8 (C7) Corrosive substances.
  - **Danger code (Kemler):** 80
  - **UN-Number:** 3267
  - **Packaging group:** III
  - **Hazard label:** 8
  - **UN proper shipping name:** 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (DIETHYLENETRIAMINE)
  - **Limited quantities (LQ):** 5L
  - **Transport category** 3

(Contd. on page 7)
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 01.05.2011
Version number 1
Revision: 01.05.2011

Trade name: Amosil 4H

- Tunnel restriction code: E
- Maritime transport IMDG:
  - IMDG Class: 8
  - UN Number: 3267
  - Label: 8
  - Packaging group: III
  - EMS Number: F-A,S-B
  - Marine pollutant: No
  - Segregation groups: Alkalis
  - Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (DIETHYLENETRIAMINE)

- Air transport ICAO-TI and IATA-DGR:
  - ICAO/IATA Class: 8
  - UN/ID Number: 3267
  - Label: 8
  - Packaging group: III
  - Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (DIETHYLENETRIAMINE)

- UN "Model Regulation": UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., 8, III
- Special precautions for user: Warning: Corrosive substances.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15 Regulatory information

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 phrases
  H302 Harmful if swallowed.
  H312 Harmful in contact with skin.
  H314 Causes severe skin burns and eye damage.
  H317 May cause an allergic skin reaction.
  R21/22 Harmful in contact with skin and if swallowed.
  R34 Causes burns.
  R43 May cause sensitisation by skin contact.

(Contd. on page 8)


Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent