

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 30.01.2008

version n° 1

Revision: 20.07.2007

1 Identification of substance:

- **Product details:**
- **Trade name:** *SLC EP21 parte B*
- **Application of the substance / the preparation**
Epoxy curing agent
Quenchant
- **Manufacturer/Supplier:**
KERAKOLL S.p.A.
Via dell'Artigianato, 9
41049 Sassuolo (MODENA) ITALY
Tel. +39 0536 816511 Fax. +39 0536 816581
safety@kerakoll.com
- **Informing department:** Product safety department
- **Emergency information:**
+39-0536-816511
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2 Hazards identification

- **Hazard designation:**



C Corrosive
N Dangerous for the environment

- **Information pertaining to particular dangers for man and environment**

R 22 Harmful 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 in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

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

- **Dangerous components:**

CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol ☒ Xn, ☒ Xi; R 20/22-43	10-25%
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine ☒ C, ☒ Xn; R 21/22-34-43-52/53	2.5-10%
CAS: 9016-45-9	noninfeolo poliglicoletere ☒ Xn, ☒ Xi; R 22-36/38-53	2.5-10%
CAS: 112-24-3 EINECS: 203-950-6	3,6-diazaocetanethylenediamin ☒ C, ☒ Xn; R 21-34-43-52/53	2.5-10%
CAS: 140-31-8 EINECS: 205-411-0	2-piperazin-1-iletilamina ☒ C, ☒ Xn; R 21/22-34-43-52/53	2.5-10%
CAS: 25154-52-3 EINECS: 246-672-0	nonylphenol ☒ C, ☒ Xn, ☒ N; R 22-34-62-50/53-63	2.5-10%

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

4 First aid measures

- General information

Instantly remove any clothing soiled by the product.
Take affected persons into the open air.

- After inhalation

Supply fresh air.
In case of unconsciousness bring patient into stable side position for transport.
Supply fresh air; consult doctor in case of symptoms.

- After skin contact

Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

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

- **After swallowing** Do not induce vomiting; instantly call for medical help.

- Information for doctor

- The following symptoms may occur:

Headache
Dizziness
Allergic reactions
Sickness

5 Fire fighting measures

- Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

- Special hazards caused by the material, its products of combustion or resulting gases:

Can be released in case of fire
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Formation of toxic gases is possible during heating or in case of fire.

- Protective equipment:

Put on breathing apparatus.
Do not inhale explosion gases or combustion gases.

- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- Person-related safety precautions:

Ensure adequate ventilation
Use breathing protection against the effects of fumes/dust/aerosol.
Keep away from ignition sources
Wear protective clothing.
Bring persons out of danger.

- Measures for environmental protection:

Prevent material from reaching sewage system, holes and cellars.
Do not allow product to reach sewage system or water bodies.
Inform respective authorities in case product reaches water or sewage system.

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Keep dirty washing water for appropriate disposal.

Do not allow to enter drainage system, surface or ground water.

- Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Collect mechanically.

Ensure adequate ventilation.

- Additional information:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

7 Handling and storage

- Handling

- Information for safe handling:

Store in cool, dry place in tightly closed containers.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect from heat.

- Storage

- Requirements to be met by storerooms and containers:

Store in cool location.

Store only in unopened original containers.

- Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with oxidizing and acidic materials.

- Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

Store container in a well ventilated position.

Protect from frost.

Protect from heat and direct sunlight.

8 Exposure controls and personal protection

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

- Components with limit values that require monitoring at the workplace:

123-86-4 n-butyl acetate (< 0.5%)

WEL	Short-term value: 966 mg/m ³ , 200 ppm
	Long-term value: 724 mg/m ³ , 150 ppm

- Additional information: The lists that were valid during the compilation were used as basis.

- Personal protective equipment

- General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.

Take off immediately all contaminated clothing

Keep away from foodstuffs, beverages and food.

Wash hands during breaks and at the end of the work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

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Do not eat, drink or smoke while working.

Apply solvent resistant clothing before beginning work.

- Breathing equipment:

Not necessary if room is well-ventilated.

Use breathing protection in case of insufficient ventilation.

Filter A/P2.

- Protection of hands:

Protective gloves.

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

- Material of gloves

Rubber gloves

PVC gloves

- 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: Safety glasses recommended during refilling.**- Body protection:** Protective work clothing.

9 Physical and chemical properties:

- General Information

Form:	Fluid
Colour:	Light yellow
Odour:	Recognizable

- Change in condition**Melting point/Melting range:** Not determined**Boiling point/Boiling range:** 150°C**- Flash point:** 90°C**- Ignition temperature:** 335°C**- Self-inflammability:** Product is not selfigniting.**- Danger of explosion:** Product is not explosive.**- Critical values for explosion:****Lower:** 1.3 Vol %**Upper:** 13.0 Vol %**- Vapour pressure at 20°C:** 0.1 hPa**- Density at 20°C** 1.00 g/cm³**- Solubility in / Miscibility with****Water:** Not miscible or difficult to mix**- pH-value at 20°C:** 10.7**- Organic solvents:** 0.4 %

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

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- **Dangerous reactions**
No dangerous reactions known
Develops corrosive gases / fumes
- **Dangerous products of decomposition:**
Corrosive gases/vapours
Carbon monoxide and carbon dioxide

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitizing effect by skin contact is possible by prolonged exposure.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC 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.
- **Sensitisation** May cause sensitisation by 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 bodies or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated under adherence to official regulations.
- **Uncleaned packagings:**
- **Recommendation:**
Dispose of packaging according to regulations on the disposal of packagings.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
Disposal must be made according to official regulations.

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14 Transport information

- Land transport ADR/RID (cross-border)



- ADR/RID-GGVS/E Class: 8 Corrosive substances.
- Kemler Number: 80
- UN-Number: 3267
- Packaging group: III
- Label: 8
- Designation of goods: 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIETHYLENETETRAMINE, nonylphenol)

- Maritime transport IMDG:



- IMDG Class: 8
- UN Number: 3267
- Label: 8
- Packaging group: III
- EMS Number: F-A,S-B
- Marine pollutant: Yes
- Correct technical name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIETHYLENETETRAMINE, nonylphenol)

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 8
- UN/ID Number: 3267
- Label: 8
- Packaging group: III
- Correct technical name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIETHYLENETETRAMINE, nonylphenol)

15 Regulatory information

- Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

- Code letter and hazard designation of product:



C Corrosive
N Dangerous for the environment

- Hazard-determining components of labelling:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

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2-piperazin-1-iletilamina
3,6-diazaoctanethylenediamin

- Risk phrases:

- 22 Harmful if swallowed.
34 Causes burns.
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:

- 1/2 Keep locked up and out of the reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- National regulations

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

* **16 Other information:**

- Relevant R-phrases

- 20/22 Harmful by inhalation and if swallowed.
21 Harmful in contact with skin.
21/22 Harmful in contact with skin and if swallowed.
22 Harmful if swallowed.
34 Causes burns.
36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.
50/53 Very 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.
53 May cause long-term adverse effects in the aquatic environment.
62 Possible risk of impaired fertility.
63 Possible risk of harm to the unborn child.

- Contact: Dr. G. Ghirardini c/o Kerakoll S.p.A. tel. +39-0536-816511 fax +39-0536-816581

- Others regulations

The safety data sheet has been drawn up in accordance with European directives 1999/45/EC, 2001/58/EC, 2001/59/EC and 2001/60/EC.

- * Data compared to the previous version altered.

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