

**Safety data sheet**  
according to 1907/2006/EC, Article 31



Printing date 17.01.2012

Revision: 30.05.2011

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

- **Product identifier**
- **Trade name:** *Curil T*
- **Elring article number:** 246.948/252.867
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** *Sealing compound*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*ElringKlinger AG  
Max-Eyth-Straße 2  
D-72581 Dettingen/Erms*
- **Informing department:**  
*2SEW Tel.: ++49/(0)7123/724-253  
E-mail: [sdb@elringklinger.de](mailto:sdb@elringklinger.de)*
- **Emergency telephone number:** *Tel.: ++49/(0)7123/724-0 (8.00 - 16.00 CET)*

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
-  **F; Highly flammable**
- **R11:** *Highly flammable.*
- **R52/53-67:** *Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.*
- **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.*
- **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.*
- **Label elements**
- **Labelling according to EU 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:**
-  **F Highly flammable**
- **Risk phrases:**
  - 11 Highly flammable.*
  - 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
  - 67 Vapours may cause drowsiness and dizziness.*
- **Safety phrases:**
  - 2 Keep out of the reach of children.*
  - 7/9 Keep container tightly closed and in a well-ventilated place.*
  - 16 Keep away from sources of ignition - No smoking.*
  - 23 Do not breathe fumes.*
  - 24 Avoid contact with skin.*
  - 51 Use only in well-ventilated areas.*
  - 56 Dispose of this material and its container to hazardous or special waste collection point.*
- **Special labelling of certain preparations:**  
*Contains Turpentine, oil. May produce an allergic reaction.*
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

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### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Plastic Polyurethane, solved in Ethanol/Ethyl acetate/Special fuel

- **Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 02-2119752552-39-0000	ethanol F R11	10-25%
EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light Xn R65; Xi R38; F R11; N R51/53 R67 Carc. Cat. 2	10-25%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 02-2119752482-38-0000	ethyl acetate Xi R36; F R11 R66-67	2.5-10%
CAS: 68410-23-1	Polyaminoamid Xi R38-41 R52/53	<2%
CAS: 8006-64-2 EINECS: 232-350-7	Turpentine, oil Xn R20/21/22-65; Xi R36/38; Xi R43; N R51/53 R10	<0.5%

- **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**  
Take affected persons into the open air.  
Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Wash with water and soap.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**  
Call a doctor immediately.  
Rinse out mouth and then drink plenty of water.
- **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.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, 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 arising from the substance or mixture**  
Can be released in case of fire  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:  
Isocyanate(Vapours)  
Hydrogen cyanide (HCN)
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources

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- Ensure adequate ventilation
- **Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **Methods and material for containment and cleaning up:**
  - Ensure adequate ventilation.
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Collect mechanically.
  - Dispose of the material collected according to regulations.
- **Reference to other sections**
  - See Section 8 for information on personal protection equipment.

## 7 Handling and storage

- **Handling**
- **Precautions for safe handling**
  - Ensure good ventilation/exhaustion at the workplace.
  - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
  - Use solvent-proof equipment.
- **Information about protection against explosions and fires:**
  - Use only in explosion-proof area.
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Fumes can combine with air to form an explosive mixture.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
  - Store in cool location.
  - Provide solvent resistant, sealed floor.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
  - Store in cool, dry conditions in well sealed containers.
  - Store container in a well ventilated position.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

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

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

### 64-17-5 ethanol

WEL	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
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### 141-78-6 ethyl acetate

WEL	Short-term value: 400 ppm
	Long-term value: 200 ppm

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

- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
  - Avoid contact with the eyes and skin.
  - Do not inhale gases / fumes / aerosols.
  - Do not smoke while working.
  - Do not eat or drink while working.
  - Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
  - Use breathing protection in case of insufficient ventilation.
  - Under the following conditions a respirator may be required:
    - When product vapor concentration exceeds the limits listed in section 8.
  - Short term filter device:
    - Filter A
- **Protection of hands:** Solvent resistant gloves

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- **Material of gloves**  
Butyl rubber, BR  
Recommended thickness of the material:  $\geq 0.5$  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**  
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

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Pasty
Colour:	Green
Odour:	Product specific
- **Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	80-120°C
- **Flash point:** -5°C
- **Ignition temperature:** 250°C
- **Self-inflammability:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- **Critical values for explosion:**

Lower:	1.0 Vol %
Upper:	15.0 Vol %
- **Vapour pressure at 20°C:** 31 hPa (prEN 13016-1)
- **Density at 20°C** 1.00 g/cm<sup>3</sup>
- **Solubility in / Miscibility with**

Water:	Partly soluble
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- **Viscosity:**

dynamic at 20°C:	ca. 30000 mPas
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- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
  - Reacts with alkaline metals
  - Reacts with alkaline earth metals
  - Reacts with strong oxidizing agents
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

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### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**Naphtha (petroleum), hydrotreated light**

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5 mg/l (rat)

**64-17-5 ethanol**

Oral	LD50	3450 mg/kg (mouse) 7060 mg/kg (rat)
Dermal	LD50	4070 mg/kg (rabbit)
Inhalative	LC50/10h	37.68 mg/l (rat)
	LC50/4 h	20000 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**  
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

### 12 Ecological information

- **Toxicity**

· **Acquatic toxicity:**

**64-17-5 ethanol**

EC50/48h	9268 mg/l (water-fly)
LC 50	8150 mg/l (leuciscus idus)
LC50/96h	14200 mg/l (Pimephales promelas)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
At present there are no ecotoxicological assessments.  
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.
- **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.  
Take to special waste combustion plant.

· **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 09	waste adhesives and sealants containing organic solvents or other dangerous substances

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- **Uncleaned packagings:**
- **Recommendation:**  
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.  
Non contaminated packagings can be used for recycling.

### 14 Transport information

- **UN-Number**
- **ADR, IMDG, IATA** 1866
- **UN proper shipping name**
- **ADR** 1866 RESIN SOLUTION
- **IMDG, IATA** RESIN SOLUTION
- **Transport hazard class(es)**
- **ADR**
- 
- **Class** 3 (F1) Flammable liquids.
- **Label** 3
- **IMDG, IATA**
- 
- **Class** 3 Flammable liquids.
- **Label** 3
- **Packing group**
- **ADR, IMDG, IATA** III
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Flammable liquids.
- **Kemler Number:** 33
- **EMS Number:** F-E,S-E
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:**
- **ADR**
- **Limited quantities (LQ)** LQ7
- **Transport category** 3
- **Tunnel restriction code** D/E

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **National regulations**
  - **Technical instructions (air):**
- | Class | Share in % |
|-------|------------|
| III   | 10-25      |
| NK    | 25-50      |
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

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**16 Other information**

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Relevant phrases**

- R10 Flammable.
- R11 Highly flammable.
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R36 Irritating to eyes.
- R36/38 Irritating to eyes and skin.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

· **Department issuing data specification sheet:** 2SEW

· **Contact:** Mr. Anhorn

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