

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 11.05.2009

Revision: 11.05.2009

1 Identification of substance:

- **Product details:**
- **Trade name:** Curil T
- **Elring article number:** 246.948/252.867
- **Application of the substance / the preparation** Sealing compound
- **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
- **Emergency information:** Tel.: ++49/(0)7123/724-0 (8.00 - 16.00 CET)

2 Hazards identification

- **Hazard designation:**



F Highly flammable

- **Information pertaining to particular dangers for man 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 11 Highly flammable.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 67 Vapours may cause drowsiness and dizziness.

- **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:** Plastic Polyurethane, solved in Ethanol/Ethyl acetate/Special fuel

- **Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6	ethanol	F; R 11	10-25%
EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light	Xn, Xi, F, N; R 11-38-51/53-65-67	10-25%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate	Xi, F; R 11-36-66-67	2.5-10%
CAS: 68410-23-1	Polyaminoamid	Xi; R 38-41-52/53	<2%
CAS: 8006-64-2 EINECS: 232-350-7	Turpentine, oil	Xn, Xi, N; R 10-20/21/22-36/38-43-51/53-65	<0.2%

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

4 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.

(Contd. on page 2)

Safety Data Sheet

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Printing date 11.05.2009

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Trade name: **Curil T**

(Contd. of page 1)

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)
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Isocyanate(Vapours)
Hydrogen cyanide (HCN)
- **Protective equipment:** Wear self-contained breathing apparatus.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources
Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
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.

7 Handling and storage

- **Handling**
- **Information 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.
- **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.

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:**

64-17-5 ethanol

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

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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- **Additional information:** The lists that were valid during the compilation were used as basis.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 11.05.2009

Revision: 11.05.2009

Trade name: Curil T

(Contd. of page 2)

- **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
- **Material of gloves**
 Butyl rubber, BR
 Recommended thickness of the material: ≥ 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:

· General Information

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/cm³

· Solubility in / Miscibility with

Water: Partly soluble

· Viscosity:

dynamic at 20°C: ca. 30000 mPas

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions**
 Reacts with alkaline metals
 Reacts with alkaline earth metals
 Reacts with strong oxidizing agents

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 11.05.2009

Revision: 11.05.2009

Trade name: Curil T

(Contd. of page 3)

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

11 Toxicological information

· **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:

· **Ecotoxicological effects:**· **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)

· **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.

13 Disposal considerations

· **Product:**· **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

· **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.

(Contd. on page 5)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 11.05.2009

Revision: 11.05.2009

Trade name: Curil T

(Contd. of page 4)

14 Transport information

· Land transport ADR/RID (cross-border)



- ADR/RID-GGVS/E Class: 3 (F1) Flammable liquids.
- Kemler Number: 33
- UN-Number: 1866
- Packaging group: III
- Label: 3
- Designation of goods: 1866 RESIN SOLUTION
- Limited quantities (LQ) LQ7
- Transport category: 3
- Tunnel restriction code: D/E

· Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 1866
- Label: 3
- Packaging group: III
- EMS Number: F-E,S-E
- Marine pollutant: No
- Correct technical name: RESIN SOLUTION

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1866
- Label: 3
- Packaging group: III
- Correct technical name: RESIN SOLUTION

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:



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.

(Contd. on page 6)

Safety Data Sheet

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(Contd. of page 5)

56 Dispose of this material and its container to hazardous or special waste collection point.

· **Special designation of certain preparations:**

Contains Turpentine, oil. May produce an allergic reaction.

· **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.

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 R-phrases**

10 Flammable.

11 Highly flammable.

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

36 Irritating to eyes.

36/38 Irritating to eyes and skin.

38 Irritating to skin.

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

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.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

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

· **Contact:** Mr. Anhorn

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