

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 22.01.2009

Revision: 22.01.2009

1 Identification of substance:

- **Product details:**
- **Trade name:** *Curil*
- **Elring article number:** 035.971/036.005/036.080/036.099/036.048/036.064
- **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:**



Xi Irritant
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.
Has a narcotizing effect.
R 11 Highly flammable.
R 36 Irritating to eyes.
R 43 May cause sensitisation by skin contact.
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:** *Mixture of modified phenolic resins, dissolved in ethanol/ethylacetate*

- **Dangerous components:**

CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate	<i>Xi, F; R 11-36-66-67</i>	10-25%
CAS: 64-17-5 EINECS: 200-578-6	ethanol	<i>F; R 11</i>	10-25%
CAS: 71-36-3 EINECS: 200-751-6	butan-1-ol	<i>Xn, Xi; R 10-22-37/38-41-67</i>	2.5-10%
CAS: 50-00-0 EINECS: 200-001-8	formaldehyde	<i>T, C; R 23/24/25-34-40-43</i>	<1%

- **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.*
- **After inhalation**
Take affected persons into the open air and position comfortably
Seek medical treatment in case of complaints.
In case of unconsciousness bring patient into stable side position for transport.
- **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**
Call a doctor immediately.

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Rinse out mouth and then drink plenty of water.

- **Information for doctor**
- **The following symptoms may occur:**
 - Headache*
 - Dizziness*
 - Dazed*

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
 - Carbon monoxide (CO)*
 - Formaldehyde*
 - Phenol**Under certain fire conditions, traces of other toxic gases cannot be excluded.*
- **Protective equipment:**
Wear self-contained breathing apparatus.
Wear full protective suit.

6 Accidental release measures

- **Person-related safety precautions:**
Keep away from ignition sources
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Do not allow to enter the ground/soil.
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Keep containers tightly sealed.
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:**
Highly volatile, flammable constituents are released during processing.
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:** *Store away from foodstuffs.*
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
Store container in a well ventilated position.

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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:**

141-78-6 ethyl acetate

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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64-17-5 ethanol

WEL	Long-term value: 1920 mg/m ³ , 1000 ppm
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71-36-3 butan-1-ol

WEL	Short-term value: 154 mg/m ³ , 50 ppm
	Sk

50-00-0 formaldehyde

WEL	Short-term value: 2.5 mg/m ³ , 2 ppm Long-term value: 2.5 mg/m ³ , 2 ppm
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· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Do not eat, drink or smoke while working.

Take off immediately all contaminated clothing

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

Avoid contact with the eyes and skin.

· **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.

· **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.

· **Not suitable are gloves made of the following materials:**

Natural rubber, NR

Nitrile rubber, NBR

PVC gloves

· **Eye protection:** Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· **General Information**

Form:	Viscous
Colour:	Brown
Odour:	Solvent-like

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: 76°C

· **Flash point:** -1°C

· **Ignition temperature:** 340°C

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

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

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- | | |
|---|------------|
| · Critical values for explosion: | |
| Lower: | 2.1 Vol % |
| Upper: | 15.0 Vol % |
| · Vapour pressure at 20°C: 79 hPa (prEN 13016-1) | |
| · Density at 20°C ca. 1.0 g/cm ³ | |
| · Solubility in / Miscibility with Water: Partly soluble | |
| · Viscosity: dynamic at 20°C: 2000 - 4000 mPas | |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised
- **Dangerous products of decomposition:**
 - Carbon monoxide
 - Carbon dioxide
 - Nitrogen oxides (NO_x)
 - Formaldehyde
- In case of fire: see section 5

11 Toxicological information

- **Acute toxicity:**

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

50-00-0 formaldehyde

Oral	LD50	>200 mg/kg (rat)
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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:** Irritant effect is possible
 - **on the eye:** Irritant effect.
- **Sensitization:** Sensitization possible by skin contact.
- **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:
 - Irritant
- **Sensitisation** May cause sensitisation by skin contact.

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:**

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

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Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Take to special waste combustion plant.
Must not be disposed of 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 09	waste adhesives and sealants containing organic solvents or other dangerous substances

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

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

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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:**



Xi Irritant
F Highly flammable

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

formaldehyde

· **Risk phrases:**

11 Highly flammable.
36 Irritating to eyes.
43 May cause sensitisation by skin contact.
67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

2 Keep out of the reach of children.
16 Keep away from sources of ignition - No smoking.
24/25 Avoid contact with skin and eyes.
37 Wear suitable gloves.
51 Use only in well-ventilated areas.
56 Dispose of this material and its container to hazardous or special waste collection point.

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
I	< 2,5
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.
22 Harmful if swallowed.
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
34 Causes burns.
36 Irritating to eyes.
37/38 Irritating to respiratory system and skin.
40 Limited evidence of a carcinogenic effect.
41 Risk of serious damage to eyes.
43 May cause sensitisation by skin contact.
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.**