

Safety Data Sheet

acc. to ISO/DIS 11014



Printing date 08/05/2013

Reviewed on 08/05/2013

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

- **Product identifier**
- **Trade name:** Curil T
- **Article number:** 246.948/252.867
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **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
Germany
- **Information department:**
2SEW Tel.: ++49/(0)7123/724-253
E-mail: 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**
 **Highly flammable**
 Highly flammable.
 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 was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
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- **Label elements**
 - **Labelling according to EU guidelines:**
 The product has been classified and marked in accordance with directives on hazardous materials.
 - **Code letter and hazard designation of product:**
 **F Highly flammable**
 - **Risk phrases:**
 Highly flammable.
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 Vapours may cause drowsiness and dizziness
 - **Safety phrases:**
 Keep out of the reach of children.
 Keep container tightly closed and in a well-ventilated place.
 Keep away from sources of ignition - No smoking.
 Do not breathe vapour.
 Avoid contact with skin.
 Use only in well-ventilated areas.
 Dispose of this material and its container at hazardous or special waste collection point
 - **Special labelling of certain preparations:**
 Contains Turpentine, oil. May produce an allergic reaction.
 - **Classification system:**
 - **NFPA ratings (scale 0 - 4)**



Health = 3
Fire = 3
Reactivity = 1

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· WHMIS-ratings (scale 0 - 4)

HEALTH	3	Health = 3
FIRE	3	Fire = 3
REACTIVITY	1	Reactivity = 1

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

3 Composition/information on ingredients

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

· Dangerous components:

CAS: 64-17-5 Reg.nr.: 02-2119752552-39-0000	ethanol F R11	10-<25%
CAS: 141-78-6 Reg.nr.: 02-2119752482-38-0000	ethyl acetate Xi R36; F R11 R66-67	1-<10%
CAS: 64742-49-0 Reg.nr.: 01-2119475514-35-XXXX	Naphtha (petroleum), hydrotreated light Xn R65; Xi R38; F R11; N R51/53 R67	2.5-<10%
CAS: 7631-86-9	silicon dioxide, chemically prepared	1-<10%
CAS: 68410-23-1	Polyaminoamid Xi R38-41 R52/53	<2%
CAS: 8006-64-2	Turpentine, oil Xn R20/21/22-65; Xi R36/38-43; N R51/53 R10	<0.5%
CAS: 110-54-3	n-hexane Xn R48/20-62-65; Xi R38; F R11; N R51/53 R67 Repr. Cat. 3	<0.5%

4 First aid measures

- Description of first aid measures
- General information:
Take affected persons out into the fresh air.
Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Wash with water and soap.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a 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:
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture
In case of fire, the following can be released:
Nitrogen oxides (NO_x)

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Carbon monoxide (CO)

In 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 respiratory protective device.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

Ensure adequate ventilation

· **Environmental precautions:** Do not allow to enter sewers/ 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).

Pick up mechanically.

Dispose of the collected material according to regulations.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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 protected 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 receptacles:**

Store in a 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 receptacles.

Store receptacle in a well ventilated area.

· **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

PEL 1900 mg/m³, 1000 ppmREL 1900 mg/m³, 1000 ppmTLV Short-term value: 1880 mg/m³, 1000 ppm

141-78-6 ethyl acetate

PEL 1400 mg/m³, 400 ppmREL 1400 mg/m³, 400 ppm

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TLV 1440 mg/m³, 400 ppm

· **Additional information:** The lists that were valid during the creation 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 before breaks and at the end of work.

· **Breathing equipment:**

Use suitable respiratory protective device 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

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Pasty

Color: Green

· **Odor:** Product specific

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 80-120 °C (176-248 °F)

· **Flash point:** -5 °C (23 °F)

· **Ignition temperature:** 250 °C (482 °F)

· **Auto igniting:** Product is not selfigniting.

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

· **Explosion limits:**

Lower: 1.0 Vol %

Upper: 15.0 Vol %

· **Vapor pressure at 20 °C (68 °F):** 31 hPa (23 mm Hg) (prEN 13016-1)

· **Density at 20 °C (68 °F):** 1.00 g/cm³

· **Solubility in / Miscibility with**

Water: Partly soluble.

· **Viscosity:**

Dynamic at 20 °C (68 °F): ca. 30000 mPas

· **Solvent content:**

VOC content: 36.6 %

· **Other information** No further relevant information available.

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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 earth alkaline 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.

11 Toxicological information

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

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

64-17-5 ethanol

Oral	LD50	3450 mg/kg (mouse) 6200 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	>1800 mg/l (rat) (OECD 401)

Naphtha (petroleum), hydrotreated light

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

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

· **IARC (International Agency for Research on Cancer)**

64-17-5	ethanol	1
7631-86-9	silicon dioxide, chemically prepared	3
91-64-5	Coumarin	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

· **Aquatic toxicity:**

64-17-5 ethanol

EC0/16h	6500 mg/l (<i>Pseudomonas putida</i>)
EC50/48h	9268 mg/l (water-fly)
LC50/48h	8150 mg/l (<i>leuciscus idus</i>)
LC50/96h	14200 mg/l (<i>Pimephales promelas</i>)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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· **Additional ecological information:**

· **General notes:**

At present there are no ecotoxicological assessments.

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

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

· **Uncleaned packagings:**

· **Recommendation:**

Packagings that cannot be cleansed 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**

· **DOT, ADR, IMDG, IATA** UN1866

· **UN proper shipping name**

· **ADR** 1866 RESIN SOLUTION

· **IMDG, IATA** RESIN SOLUTION

· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids.

· **Label** 3

· **ADR**



· **Class** 3 (F1) Flammable liquids

· **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids.

· **Label** 3

· **Packing group**

· **DOT, ADR, IMDG, IATA** III

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user** Warning: Flammable liquids

· **Danger code (Kemler):** 33

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- **EMS Number:** F-E,S-E
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

64-17-5 ethanol

Naphtha (petroleum), hydrotreated light

141-78-6 ethyl acetate

8001-78-3 Hydrogenated Castor Oil

7631-86-9 silicon dioxide, chemically prepared

68410-23-1 Polyaminoamid

123-86-4 n-butyl acetate

8006-64-2 Turpentine, oil

98-55-5 p-menth-1-en-8-ol

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5 ethanol

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

108-90-7 chlorobenzene

D

· **TLV (Threshold Limit Value established by ACGIH)**

64-17-5 ethanol

A3

108-90-7 chlorobenzene

A3

· **MAK (German Maximum Workplace Concentration)**

64-17-5 ethanol

5

8006-64-2 Turpentine, oil

3A

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**



F Highly flammable

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· **Risk phrases:***Highly flammable.**Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment**Vapours may cause drowsiness and dizziness*· **Safety phrases:***Keep out of the reach of children.**Keep container tightly closed and in a well-ventilated place.**Keep away from sources of ignition - No smoking.**Do not breathe vapour.**Avoid contact with skin.**Use only in well-ventilated areas.**Dispose of this material and its container at hazardous or special waste collection point*· **Special labeling 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.· **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.

· **Department issuing MSDS:** 2SEW· **Contact:** Mr. Anhorn· * **Data compared to the previous version altered.**