

Material Safety Data Sheet

acc. to ISO/DIS 11014


Printing date 12/07/2010

Reviewed on 06/10/2009

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**
- **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.
-
- **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 fumes
Avoid contact with skin.
Use only in well-ventilated areas.
Dispose of this material and its container at hazardous or special waste collection point
 - **Classification system:**
 - **NFPA ratings (scale 0 - 4)**



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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:**

64-17-5	ethanol F R11 ----- GHS02 H225	10-25%
	Naphtha (petroleum), hydrotreated light Xn R65; Xi R38; F R11; N R51/53 R67 ----- GHS02 H225; GHS08 H304; GHS09 H411; GHS07 H315; H336; H401	10-25%
141-78-6	ethyl acetate Xi R36; F R11 R66-67 ----- GHS02 H225; GHS07 H319; H336	2.5-10%
68410-23-1	Polyaminoamid Xi R38-41 R52/53 ----- GHS05 H315; H318; H402; H412	<2%
8006-64-2	Turpentine, oil Xn R20/21/22-65; Xi R36/38-43; N R51/53 R10 ----- GHS02 H226; GHS08 H304; GHS09 H411; GHS07 H302; H312; H332; H315; H319; H317	<0.2%

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.

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)
Carbon monoxide (CO)
In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Isocyanate(Vapours)

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- 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.

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/m ³ , 1000 ppm
REL	1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , NIC-1000 ppm
	Long-term value: 1880 mg/m ³ , 1000 ppm
	NIC-A3

141-78-6 ethyl acetate

PEL	1400 mg/m ³ , 400 ppm
REL	1400 mg/m ³ , 400 ppm
TLV	1440 mg/m ³ , 400 ppm

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

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- **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

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **Possibility of hazardous reactions**
Reacts with alkaline metals.
Reacts with earth alkaline metals.
Reacts with strong oxidizing agents.
- **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:**

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:** *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.

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)

- **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.*

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.

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Non contaminated packagings can be used for recycling.

14 Transport information

· DOT regulations:



- Hazard class: 3
- Identification number: UN1866
- Packing group: III
- Proper shipping name (technical name): RESIN SOLUTION
- Label: 3

· Land transport ADR/RID (cross-border):



- ADR/RID class: 3 (F1) Flammable liquids
- Danger code (Kemler): 33
- UN-Number: 1866
- Packaging group: III
- UN proper shipping name: 1866 RESIN SOLUTION

· Maritime transport IMDG:



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

· Air transport ICAO-TI and IATA-DGR:



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

· Special precautions for user Warning: Flammable liquids

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):

108-90-7 chlorobenzene

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

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· **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

· **Canadian Ingredient disclosure list**· **Limit 0,1%:**

ethanol

· **Limit 1%:**

ethyl acetate

silicon dioxide, chemically prepared

· **Carcinogeny categories**· **EPA (Environmental Protection Agency)**

108-90-7 chlorobenzene

D

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

7631-86-9 silicon dioxide, chemically prepared

3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

64-17-5 ethanol

A4

108-90-7 chlorobenzene

A3

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

64-17-5 ethanol

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· **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

· **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 fumes

Avoid contact with skin.

Use only in well-ventilated areas.

Dispose of this material and its container at hazardous or special waste collection point

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· **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.**