

UN 1252000

Material Safety Data Sheet
According to 93/112 EC

Printing date 27.10.98

Reviewed on 26.10.98

1 Identification of substance:

- Product details:
- Trade name: Curil T
- Elring article number: 246.948/252.867 , 447.200-(Curil T, 20 ml)
- Manufacturer/Supplier:
Elring Klinger GmbH
Max-Eyth-Straße 2
72581 Dettingen/Erms
- Informing department: IDW Tel.: ++49/(0)7123/724-253
- Emergency information: Tel.: ++49/(0)7123/724-0

2 Composition/Data on components:

- Chemical characterization
- Description:
Plastic Polyurethan, solved in Ethanol/Ethylacetate/Special fuel

Dangerous components:

64-17-5 ethanol F; R 11	10-25 %
64742-49-0 Naphtha (petroleum), hydrotreated light Xn, F, N; R 11-51/53-65	2.5-10 %
141-78-6 ethyl acetate F; R 11	2.5-10 %

3 Hazards identification

- Hazard designation:



F Highly flammable

- Information pertaining to particular dangers for man and environment
R 11 Highly flammable.
- 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.

4 First aid measures

- 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
Drink copious amounts of water and provide fresh air. Instantly call for doctor.
Induce vomiting

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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 (NOx)
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:
Prevent material from reaching sewage system, holes and cellars.
- 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.
Use solvent-proof equipment.
- Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- 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.

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

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OEL: 1900 mg/m3, 1000 ml/m3

141-78-5 ethyl acetate

OEL: 1400 mg/m3, 400 ml/m3

- **Additional information:**

The lists that were valid during the compilation were used as basis.

- **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:**
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- **Protection of hands:** Solvent resistant gloves
- **Eye protection:** Safety glasses

9 Physical and chemical properties:

- **Form:** Pasty
- **Colour:** Green
- **Odour:** Product specific

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
• Change in condition			
• Melting point/Melting range:	Not determined		
• Boiling point/Boiling range:	80-120	° C	
• Flash point:	-12	° 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	59	mbar
• Density	at 20 ° C	1.00	g/cm3
• Solubility in / Miscibility with			
• Water:	Partly soluble		
• Viscosity:			
• dynamic:	at 20 ° C	35000-60000	mPas
• Solvent content:			
• Organic solvents:	36.7 %		

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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
- Dangerous products of decomposition:
No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:
LD/LC50 values that are relevant for classification:
64-17-8 ethanol
Oral: LD50: 7060 mg/kg (rat)
Inhalative: LC50/4 h: 20000 mg/l (rat)

141-78-6 ethyl acetate
Oral: LD50: 4935 mg/kg (rbt)
Inhalative: LC50/4 h: 1600 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:

- General notes:
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.
- 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

- Land transport ADR/RID (cross-border)
- ADR/RID-GGVS/E Class: 3 Inflammable liquids

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- Number/Letter: 5b
- Kemler Number: 33
- UN-Number: 1866
- Label: 3
- Designation of goods: Harzlösung

- Maritime transport IMDG:
- IMDG Class: 3.2
- Page: 3278
- UN Number: 1866
- Packaging group: II
- EMS Number: 3-05
- MFAG: 310
- Marine pollutant: No
- Correct technical name: Resin solution

- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 3
- UN/ID Number: 1866
- Packaging group: II
- 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.
- Safety phrases:
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 gas/fumes/vapour/spray.
24 Avoid contact with skin.

- National regulations

- Technical instructions (air):

Class Share in %

II	0.1
III	36.6

- 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.

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- Department issuing data specification sheet: 1 DW
- Contact: Mr. Anhorn