

UN 125 1000

Material Safety Data Sheet  
According to 93/112 EC

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Printing date 28.01.2000

Reviewed on 14.07.1999

**1 Identification of substance:**

- Product details:
- Trade name: Curil K2
- Elxing article number: 532.215/534.501/534.714/036.129
- Manufacturer/Supplier:  
Elring Klinger GmbH  
Max-Eyth-Straße 2  
72581 Dettingen/Erms
- Informing department: 2DW2 Tel.: ++49/(0)7123/724-253
- Emergency information: Tel.: ++49/(0)7123/724-0

**2 Composition/Data on components:**

- Chemical characterization
- Description:  
Castor oil derivative ( modified with phenolic resin ) solved in Ethanol.

Dangerous components:

64-17-5 ethanol 25-50 %  
F; R 11

**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  
Instantly wash with water and soap and rinse thoroughly.
- 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.

**5 Fire fighting measures**

- Suitable extinguishing agents  
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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<b>Trade name: Curil K2</b>
(Contd. of page 1) 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: Formation of poisonous gases during heating or in fires. Protective equipment: Put on breathing apparatus.
<b>6 Accidental release measures</b> Person-related safety precautions: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources Measures for environmental protection: Do not allow to enter drainage system, surface or ground water. Measures for cleaning/collecting: Collect mechanically. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Dispose of the material collected according to regulations.
<b>7 Handling and storage</b> 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. Store container in a well ventilated position. Class according to regulation on inflammable liquids: 3
<b>8 Exposure controls and personal protection</b> Additional information about design of technical systems: No further data: see item 7. <u>Components with limit values that require monitoring at the workplace:</u> 64-17-5 ethanol OEL: 1900 mg/m <sup>3</sup> , 1000 ml/m <sup>3</sup> silicon dioxide, chemically prepared OEL: 1.5 mg/m <sup>3</sup> Additional information: The lists that were valid during the compilation were used as basis. Personal protective equipment (Contd. on page 3)

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- **General protective and hygienic measures**  
Wash hands during breaks and at the end of the work.  
Take off immediately all contaminated clothing  
Avoid contact with the eyes and skin.  
Do not eat, drink or smoke while working.
- **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.  
Short term filter device:
- **Protection of hands:** Solvent resistant gloves
- **Eye protection:** Safety glasses

9 **Physical and chemical properties:**

- **Form:** Viscous
- **Colour:** Yellowbrown
- **Odour:** Like alcohol

	Value/Range	Unit	Method
• <b>Change in condition</b>			
• <b>Melting point/Melting range:</b>	Not determined		
• <b>Boiling point/Boiling range:</b>	76	° C	
• <b>Flash point:</b>	13	° C	
• <b>Ignition temperature:</b>	425	° C	DIN 51794
• <b>Self-inflammability:</b>	Product is not selfigniting.		
• <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/steam mixtures is possible.		
• <b>Critical values for explosion:</b>			
• <b>Lower:</b>	3.5	Vol %	
• <b>Upper:</b>	15.0	Vol %	
• <b>Vapour pressure:</b>	at 20 ° C	59	mbar
• <b>Density</b>	at 20 ° C	1.04	g/cm3 DIN 51757
• <b>Solubility in / Miscibility with</b>			
• <b>Water:</b>	Partly soluble		
• <b>Viscosity:</b>			
• <b>dynamic:</b>	at 20 ° C	3500 - 5500	mPas
• <b>Solvent content:</b>			
• <b>Organic solvents:</b>	27.0 %		

10 **Stability and reactivity**

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

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<ul style="list-style-type: none"><li>· <b>Dangerous reactions</b> Reacts with alkaline metals Reacts with alkaline earth metals Reacts with strong oxidizing agents</li><li>· <b>Dangerous products of decomposition:</b> No dangerous decomposition products known</li></ul>	
<b>11 Toxicological information</b>	
<ul style="list-style-type: none"><li>· <b>Acute toxicity:</b> <u>LD/LC50 values that are relevant for classification:</u> 64-17-5 ethanol Oral: LD50: 7060 mg/kg (rat) Inhalative: LC50/4 h: 20000 mg/l (rat)</li><li>· <b>Primary irritant effect:</b><ul style="list-style-type: none"><li>· on the skin: Irritant to skin and mucous membranes.</li><li>· on the eye: Irritant effect.</li></ul></li><li>· <b>Sensitization:</b> No sensitizing effect known.</li><li>· <b>Additional toxicological information:</b> Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.</li></ul>	
<b>12 Ecological information:</b>	
<ul style="list-style-type: none"><li>· <b>General notes:</b> 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.</li></ul>	
<b>13 Disposal considerations</b>	
<ul style="list-style-type: none"><li>· <b>Product:</b></li><li>· <b>Recommendation</b> Take to special waste combustion plant. Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Regulations of local authorities have to be followed.</li><li>· <b>European waste catalogue</b><ul style="list-style-type: none"><li>08 00 00: Wastes from the manufacture, formulation, supply and use (MFSU) of coatings, (paints, varnishes and vitreous enamels), adhesive, sealants and printing inks</li><li>08 04 00: wastes from MFSU of adhesives and sealants (including waterproofing products)</li><li>08 04 02: waste adhesives and sealants free of halogenated solvents</li></ul></li><li>· <b>Uncleaned packagings:</b></li><li>· <b>Recommendation:</b> 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 treated like household garbage.</li></ul>	
<b>14 Transport information</b>	
<ul style="list-style-type: none"><li>· Land transport ADR/RID (cross-border)</li><li>· ADR/RID-GGVSt/E Class: 3 Inflammable liquids</li></ul>	
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• Number/Letter:	5b
• Kemler Number:	33
• UN-Number:	1866
• 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
• 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
<b>15 Regulatory information</b>	
• 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. 33 Take precautionary measures against static discharges. 43 In case of fire, use ...	
• National regulations	
• Classification according to VbF: B	
• Technical instructions (air): <u>Class Share in %</u> III 27.0	
• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.	
<b>16 Other information:</b> 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. <p style="text-align: right;">(Contd. on page 6)</p>	

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- Department issuing data specification sheet: 2DW
- Contact: Mr. Anhorn