

Trade Name:	R-KEX
Producer: Supplier:	Rawlplug Limited
Printing Date	Skibo Drive
	Thornliebank Industrial Estate
	GB- Glasgow G46 8JR
	Telephone: 0141 638 7961
	Fax: 0141 638 7397
	30.04.2004

1. Identification of the substance/preparation and of the company/undertaking

Description of substance or preparation: **RAWL R-KEX**

1.2 Firm Name

Rawlplug Ltd

1.3 Telephone number of the firm in case of emergencies:

0141 638 7961

2. Composition/information on ingredients

2.1 Chemical characterization, description : Mixture of substances listed below with non-hazardous additions.

2.2 Dangerous components :

100-51-6 Benzyl alcohol Xn ; 20/22 10-25%

140-31-8 2-piperazin-1-ylethylamine C ;21/22-34-43-52/53 2.5-10%

1477-55-0 m-phenylenebis(methylamine) c ;22-34 2.5-10%

3. Hazard identification:

Hazard description: Corrosive

4. Information concerning hazards for human and environment

R22: Harmful if swallowed

R34: Causes burns

R43: May cause sensitisation by skin contact.

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5. First Aid Measures

General information: Immediately remove any clothing soiled by product

After inhalation: Supply fresh air and call for doctor. If unconscious place patient in recovery position and await medical help.

After skin contact: Immediately wash with water and soap rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Consult a doctor.

After swallowing: Do not induce vomiting, call for medical help.

6. FIRE FIGHTING MEASURES

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

Unsuitable extinguishing agents: Water with full jet.

Special Hazards: In cases of fire Nitrogen oxides (Nox) and Carbon monoxide (CO) may be released.

Protective equipment: Wear fully protective suit. Wear respiratory protective device.

Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

7. ACCIDENTAL RELEASE MEASURES

Human safety precautions: Wear protective equipment.

Environmental precautions: Do not allow to enter sewers/surface or ground water.

Measures for cleaning/collecting: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to reference 13. Ensure adequate ventilation.

8. HANDLING AND STORAGE

Safe Handling: Ensure good ventilation/exhaustion at the workplace. Handle product with care. Protect from heat.

Storage: Prevent any seepage. Ensure product is stored away from food stuffs. Store in cool; dry conditions in well sealed receptacles.

Storage class: Class in accordance to regulations on flammable liquids.

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9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients which require monitoring at the workplace:

108-95-2 phenol

OES Short-term value: 39mg/mm³, 10ppm

Long-term value: 20mg/m³, 5ppm

Sk

Personal protective equipment: The usual precautionary measures to be adhered to when handling chemicals. Immediately remove all soiled /contaminated clothing.

Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

Respiratory protection: Not necessary if room is well ventilated.

Protection of hands: Wear protective PVC gloves.

Eye Protection: Tightly sealed safety goggles

Body Protection: Wear protective work clothing.

10. PHYSICAL AND CHEMICAL PROPERTIES

- **Form:** Pasty
- **Colour:** Grey
- **Odour/Smell:** Amine-like
- **Change in condition:**
- **Melting point/Melting range** NA0c
- **Boiling point/Boiling range** >200C(DIN 53171)
- **Flash point:** >100C(IS02719)
- **Ignition temperature:** >300C(DIN 51 794)
- **Decomposition temperature:** >260C(DIN 53171)
- **Self-igniting:** Product not self-igniting
- **Danger of explosion:** No explosion hazard
- **Density at 20C:** 1,64 g/cm³
- **Solubility in/ Miscibility with water:** Not miscible/difficult to mix
- **Organic solvents:** Soluble in many
- **PH-value at 20C:** >10

11. STABILITY AND REACTIVITY

Thermal decomposition: No decomposition if used in accordance to specifications.

Dangerous reactions: Strong exothermic reactions with acids.

Dangerous decomposition products: Corrosive gases/vapours- Ammonia.

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12. INFORMATION TOXICOLOGICAL

Acute toxicity: LD/Lc50 values relevant for classification:

100-51-6 benzyl alcohol

Oral LD50 1230 mg/kg (rat)

Dermal LD50 2000mg/kg (rabbit)

Primary irritant effect:

On the skin: Caustic effects on skin and mucous membrane.

On the eye: Strong caustic effects.

Sensitisation: Possible through skin contact

Additional toxicological information: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation to stomach and oesophagus.

13. ECOLOGICAL INFORMATION

The product is difficulty biodegradable. At present there are no ecotoxicological assessments.

14. DISPOSAL CONSIDERATIONS

European Waste Catalogue: 08 04 99 Wastes not otherwise specified.

Dispose of the product by burning in a suitable incinerator or bury in an approved land fill following all applicable local/national regulations.

Empty containers may not be disposed of unless any remaining material adhering to the internal walls has been removed. Disposal must be made according to official regulations.

Recommended cleaning agents: Water, if necessary together with cleaning agents.

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15. TRANSPORT INFORMATION

Land transport ADR/RID (cross border)

- Class ADR/RID: 8 Corrosive substances
- Item: 66c
- Danger code Kemler: 80
- UN Number 1760
- Hazard label 8
- Description of goods 1760 Corrosive liquid, nos, n-Aminoethylpiprazine.

Maritime transport IMDG

- IMDG Class 8
- Page 8147
- UN-Number 1760
- Packaging group 111
- EMS Number 8-15
- Marine pollutant No
- Proper shipping name Corrosive liquid, nos, n-Aminoethylpiprazine.

Air transport ICAO-TI and IATA-DGR

- ICAO/IATA Class 8
- UN-ID Number 1760
- Packaging group 111
- Proper shipping name Corrosive liquid, nos, n-Aminoethylpiprazine.

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16. REGULATORY INFORMATION

Labelling: Product has been labelled in accordance with EU directives in line with respective national laws.

Code letter and hazard designation of product: C Corrosive.

Hazard determining components of labelling: 2-piperazin-1-ylethylamine.

Risk phrases (R): 22 : Harmful if swallowed.

34: Causes burns

43: May cause sensitisation by skin contact.

Safety Phrases (S): 26: in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39: wear suitable protective clothing, gloves and eye/face protection.

45: in case of accident or if you feel unwell, seek medical advice immediately (show label where possible.)

60: Material and container must be disposed of as hazardous waste.

Special Labelling of preparations: Contains epoxy constituents. See information supplied by the manufacturer.

National regulations:

Classification according to VbF: Void.

Technical instruction (air): Class Share in %

1 0.2

11 8.8

111 5.2

Water hazard class: Class 1 (WGK1) slightly hazardous for water

17. OTHER INFORMATION:

The 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.