

Trade Name:	RAWL R-CAS Capsule
Producer: Supplier:	Rawlplug Limited Skibo Drive Thornliebank Industrial Estate GB- Glasgow G46 8JR Telephone: 0141 638 7961 Fax: 0141 638 7397
Printing Date	12.02.2004

**1. Identification of the substance/preparation and of the company/undertaking****1.1 Description of substance or preparation****RAWL R-CAS CAPSULE****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 Chem. name / % content / symbol / R-phrases**

Dibenzoyl peroxide;	202-327-6	94-36-0	1-<20	Xi& E& 2-36-43
Styrene;	202-851-5	100-42-5	1-<12.5	Xn 10-20-36/38

**3. Hazards identification****R10: Flammable** Keep away from sources of ignition- refrain from smoking.**R43:** May cause sensitisation by skin contact.**Requirements for storage rooms and vessels**

No special measures required.

**Advice on storage compatibility**

Not applicable.

Further information on storage conditions

Keep in a cool place. Protect from heat. Protect from sun. Do not keep above 25°C.

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#### 4. First Aid Measures

**General information:** Change soaked clothing.

**Inhalation:** Ensure supply of fresh air. In the event of symptoms seek medical advice.

**Skin Contact:** In case of contact with skin wash off immediately with soap and water, consult a doctor if symptoms persist.

**Eye Contact:** In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

**Ingestion:** Not applicable

#### 5. Fire-fighting measures

**5.1 Suitable extinguishing media:** Water spray jet. Foam. Dry powder.

**5.2 Non suitable extinguishing media:** Full water jet

**5.3 Special exposure hazards arising from the substance or preparation itself or combustion products:** Risk of formation of toxic pyrolysis products. Carbon monoxide (CO). Nitrogen oxides (Nox).

**5.4 Special protective equipment for firefighters:** Use self-contained breathing apparatus.

**5.5 Additional information:** Cool containers at risk with water spray jet.

#### 6. Accidental release measures:

**6.1 Personal precautions:** Keep away sources of ignition. Use personal protective clothing.

**6.2 Environmental precautions:** Not Applicable.

**6.3 Methods for cleaning up:** Soak up residues with absorbent material (e.g. sand). Take up residues mechanically. Dispose of absorbed material in accordance with the regulations.

#### 7. Handling and storage

**7.1 Advice on safe handling:** No special measures necessary if used correctly. Handle with care- avoid shock, friction and impact.

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**8. Exposure controls/personal protection**  
**Additional advice on system design- Ingredients with occupational limits to be monitored.**

<b>Substance</b>	<b>Value:</b>
Dibenzoyl peroxide	MAK: 5mg/m <sup>3</sup> E,2000
Styrene	MAK: 20ppm BAT, (Y) 2000
<b>Respiratory protection</b>	Not applicable.
<b>Hand protection</b>	Suitable protective gloves
<b>Eye protection</b>	Safety glasses
<b>General protective measures</b>	Avoid contact with skin/eyes
<b>Hygiene measures.</b>	At work do not smoke, eat or drink. Wash hands before breaks and after work. Use barrier cream.

**9.1 Physical and chemical properties**

<b>Form:</b>	Solid.
<b>Colour:</b>	Not Applicable.
<b>Odour:</b>	Not Applicable.
<b>Ph-Value:</b>	Not Applicable.
<b>Boiling point:(°C)</b>	Not determined
<b>Flash point (°C)</b>	31 (resin)
<b>Flammability:</b>	Not determined
<b>Lower explosion limit:</b>	Not Applicable
<b>Upper explosion limit:</b>	Not Applicable
<b>Combustible properties:</b>	No
<b>Vapour pressure (kPA):</b>	Not determined
<b>Density (g/ml)</b>	1,15
<b>Solubility in water:</b>	Immiscible
<b>Partition coefficient: n-octanol</b>	Not determined.
<b>Water Viscosity:</b>	2200mpas (23°C)
<b>Relative vapour density determined In air</b>	Not determined
<b>Speed of evaporation:</b>	Not determined.
<b>Melting point (°C):</b>	Not determined.
<b>Autoignition temperature:</b>	Not determined.

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**10. Stability and reactivity****Hazardous reactions**

Polymerisation with evolution of heat. Decomposition with water, acids and alkalis.

**Hazardous decomposition products**

No hazardous decomposition products known.

**11.1 Toxicological information****Acute oral toxicity**

LD50 Rat

**OECD 401****Acute dermal toxicity**

LD50 Rabbit

**OECD 402****Irritant effect on eye OECD 403**

Not determined.

**Irritant effect on skin OECD 404**

Not determined.

**Sensitisation OECD 405**

Not determined.

**11.2 Ecological information****Fish toxicity**

Not determined.

**Behaviour in environmental compartments**

Not determined.

**Behaviour in sewage plant**

Not applicable.

**Bacteria toxicity**

Not determined

**Biodegradable**

Not applicable

**Chemical oxygen demand (COD)**

Not applicable

**Biochemical oxygen demand (BOD5)**

Not applicable

**AOX-Advise**

No dangerous components.

**Contains Compunds of 76/464/EC**

Yes

**General information**

Ecological data not available.

**Subacute toxicology**

Not determined

**Chronic toxicology**

Not determined.

**Mutagenicity validation**

Not determined.

**Reproduction toxicity/validation**

Not determined.

**Carcinogenicity/validation**

Not determined.

**Experiences made in practise**

None.

**General Remarks**

No toxicological data available. Product classified on the basis of the calculation procedure of the preparation directive.

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**12. Disposal Consideration**

Dispose of as hazardous waste.

Waste Number. 0804011

**12.1 Disposal /Contaminated packaging**

Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as per product.

**13. Transport Information****13.1 ADR:**

Not classified as D.

**13.2 Vapour Pressure**

Not classified as Dangerous goods.

**13.3 Classification according to IMDG**

Not classified as dangerous goods.

**13.4 Conditions for limited quantities**

Not classified as dangerous goods.

**14. Classification according to IATA:****IATA-DGR:**

Class 3, Packing group III

**Dangerous goods**

Polyester resin kit, Class:3, UN 3269,

**Declaration:**

III, flashpoint: 31°C

**Labelling**

Polyester resin kit UN 3269

**15. Labelling**

The product is classified and labelled in accordance with EC directives.

Hazard Symbols

Irritant contains Dibenzoyl peroxide

R10: Flammable

R43: May cause sensitisation by skin contact.

S3/7: Keep container tightly closed in a cool place.

S60. This material and its container must be disposed of as hazardous waste.

No special labelling required for certain preparations.

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## 16. National Regulations

No dangerous Goods in accordance to ADR 2.2.3.1.5..

### 16.1 Other information

**R10:**

**R2:**

**R20:**

**R36/38:**

**R43:**

### R- Phrases

Flammable

Risk of explosion by shock, fire, or other sources of ignition.

Harmful by inhalation.

Irritating to eyes and skin.

May cause sensitisation by skin contact.

### 16.2 Regulatory information

\*91/155(2001/58)

\*67/458(2001/59)

\*1999/45(2001/60)

\*91/689(2001/118)

\*89/542

\*ADR(23.07.01)

\*MDG-Code(30.Amdt)

\*IATA-DGR (2002)

\*Classification according to VbF

\*Water hazard class