

**MATERIAL SAFETY DATA SHEET**  
**CP1139 v1.2 RS 622-1815, 622-1821, 622-1837, 622-1843**  
**RS REACH revision date 01/11/09**

Based on regulation (EC) No. 1907/2006 (REACH) Article 31 Annex II

**CHEMICAL CAPSULES**

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

Product: Chemical Capsules

Article Number: RS 622-1815, 622-1821, 622-1837, 622-1843

Application: Provides an expansion free anchorage in concrete.

Supplier: RS Components Ltd,  
Birchington Road,  
Corby, Northants,  
NN17 9RS,

Tel: +44 (0) 1536 402888 (8am to 8pm)

Fax: +44 (0) 1536 401588

Email: technical.help@rs-components.com

**2. Hazard identification**

**2.1 To people**

See section 11 and 15  
Preparation is classed as hazardous under directive 1999/45/EC  
Product is flammable  
May cause sensitisation by skin contact

**2.2 To the environment**

See section 12

**3. Composition/information of ingredients**

3.1 Chemical name	Contents in %	Cas NO.	INECS	Symbol	Risk Phrase
Styrene	1.0-<12.5	100-42-5	202-851-5	Xn/Xi	10-20-36/38
Dibenzoyl Peroxide	1.0-<2.0	94-36-0	202-327-6	E/Xi	2-36-43
1,1'-(p-Tolylimino)dipropen-2-ol	0.1-<1.0		254-075-1	T	25-36-52-53

For complete wording of the R phrases refer to section 16

**4. First Aid measures**

- 4.1 Inhalation** Move patient to fresh air and allow to rest. Seek medical attention if patient is slow to recover or unconscious
- 4.2 Eye contact** Irrigate with clean water for at least 15 mins. Seek medical attention
- 4.3 Skin** Remove contaminated clothing. Wash with copious amounts of soap and water. If irritation persists, seek medical advice
- 4.4 Ingestion** Typically no exposure path. Seek medical advice immediately
- 4.5 Special resources necessary for first aid.**  
Indications for the physician  
Treat symptomatically  
*First Aiders should protect themselves from exposure ( Ref to section 8 )*

**5. Fire fighting measure**

- 5.1 Extinguishing Media** Water spray, Dry powder, CO2, and foam.
- 5.2 Unsuitable Media** Full water jet
- 5.3 Exposure Hazards** In case of fire can develop oxides of Carbon and Toxic pyrolysis products
- 5.4 Fire Fighting Equipment** Wear self contained breathing equipment
- 5.5 Further information** Do not allow water to enter watre courses.  
Dispose of according to local regulations

## 6. Accidental release measures

- 6.1 Personal precautions** Remove sources of ignition. Do not smoke  
Avoid contact with eyes and skin
- 6.2 Environmental measures** Dam up. Prevent from entering drainage system, surface and ground water
- 6.2 Clean up procedure** Clean up by using an absorbent material and dispose of according to point 13  
*Refer to sections 5,8 and 13 for protective measures and disposal.*

## 7. Handling and storage

- 7.1 Safe handling** Avoid shock and friction  
Keep away from sources of ignition, do not smoke  
Wash hands before breaks and at end of work  
Eating, drinking and smoking and food storage is prohibited in the work area  
General hygiene measures for the handling of chemicals are to be followed  
Follow installation instructions.
- 7.2 Storage** Store products in original packaging  
Avoid heat and direct sunlight  
Not to be stored in gangways and stairwells

## 8. Exposure controls/personal protection

Chemical name	WEL-TWA	WEL-STEL
Styrene	100ppm (430 mg/m <sup>3</sup> )	250ppm (1080 mg/m <sup>3</sup> )
Dibenzoyl Peroxide	5 mg/m <sup>3</sup>	-
Siliziumdioxid, Quartz	0.1 mg/m <sup>3</sup> (silika, respirable crystalline)	-
Dicyclohexyl phthalate	5 mg/m <sup>3</sup>	-
Ensure good ventilation		
<b>Respiratory</b>	Not normally necessary	
<b>Ingestion</b>	Unlikely during normal use.	
<b>Eye Protection</b>	Safety glasses with eye shields	
<b>Skin Protection</b>	Wear protective gloves and suitable clothing	

## 9. Physical and chemical properties

Appearance	Capsule	Odour	N/A
Colour	N/A	Oxidising properties	No
Viscosity	N?C	Density	-
Melting Point	N/A	Boiling Point °C	~145
Flammability	N.C.	Flash Point °C	34 Resin
Explosive Properties	-	Ignition Temperature °C	490
Min limit of explosion	1.1vol%	pH value undiluted	N/A
Max limit of explosion	8.0vol%	Solubility in water	Insoluble

## 10. Stability and reactivity

<b>Conditions to avoid</b>	Heat. Open flame. Sources of ignition (See point 7) Polymerisation possible
<b>Materials to avoid</b>	Acids. Bases. Water
<b>Hazardous Decomposition:</b>	See point 5.3

## 11. Toxicological information

### Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg)	n.av.
Inhalation, LC50 rat inhale (mg/1/4h)	n.av.
Skin contact, LD50 rat dermal (mg/kg)	n.av.
Eye contact	n.av.

### Delayed and chronic effects

Sensitization	Yes (skin contact)
Carcinogenicity	n.c.
Mutagenicity	n.c.
Reproductivity toxicity	n.c.
Narcosis	n.c.

Further information  
Classification according to calculation procedure

## 12. Ecological Information

Water hazard class (Germany)	2
Self classification	Yes (VwVwS)
Persistence and degradability	n.av.
behaviour in sewage plants	According to the recipe, contains no AOX
Aquatic toxicity	
Toxicity to bacteria	ECO 72 mg/l/16h*
Toxicity to fish	LC50 Leuciscus idus 17-66 mg/l/48h*
Toxicity to daphnia	EC50 182 mg/l/24h*
Ecological toxicity	n.av.
*Styrene	

## 13. Disposal considerations

### 13.1 For the material/preparation/substance

EC disposal code no:

The waste codes are recommendations based on the scheduled use for this product

Owing to the user's specific conditions for use and disposal, other codes may be allocated under certain circumstances. (2001/118/EC, 2001/119EC, 2001/573/EC)

08 04 11 adhesive and sealant sludge contains organic solvents or other dangerous substances

Recommendation

Refer to local and national official regulations

E.g. suitable incineration plant

E.g. dispose at suitable refuse site

### 13.2 For contaminated packing material

See point 13.1

Refer to local and national official regulations

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product

## 14. Transport information

### General statements

UN-Number 1866

### Road/Rail- transport (ASDR/RID)

Class/packing group n.a.

Classification code n.a.

LQ n.a.

### Transport by sea

IMDG-code n.a.

Marine pollutant n.a.

### Transport by air

IATA 3/-III (class/secondary danger/packing-group)

Resin solution

**15. Regulatory information****Labelling:**

Symbol	Xi
Indications of danger	Irritant
Risk Phrases	
R10	Flammable
R43	May cause sensitisation by skin contact.
Safety Phrases	
S3/7	Keep container tightly closed in a cool place
S35	This container and its contents must be disposed of in a safe way
S36/37	Wear suitable protective clothing and gloves
Additions	
Contains Dibenzoyl peroxide	Observe restrictions

**16. Other information**

These details refer to the product as it is delivered	
The following phrases represent the prescribed R-phrases for the ingredients (designated in point 2)	
R10	Flammable
R20	Harmful by inhalation
R36/38	Irritating to eyes and skin
R2	Risk of explosion by shock, friction, fire, or other sources of ignition
R36	Irritating to eyes
R43	May cause sensitization by skin contact
R25	Toxic if swallowed
R52	Harmful to aquatic organisms
R53	May cause long term adverse effects in the aquatic environment

**Legend**

n.a. = not applicable  
 n.av = not available  
 n.c. = not checked  
 WEL = Workplace Exposure Limit

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