

## SAFETY DATA SHEET

### Lokfix Resin

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** Lokfix Resin

**Product number** 1668011UK9,A1664002UK9,A1668002UK9,A1668003UK9

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Grout and anchors

##### 1.3. Details of the supplier of the safety data sheet

**Supplier** FOSROC Limited  
 Drayton Manor Business Park  
 Coleshill Road  
 Tamworth  
 Staffordshire  
 B78 3XN  
 enquiryuk@fosroc.com  
 Tel. +44 (0) 1827 262222  
 Fax. +44 (0) 1827 262444

##### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1827 265 279 (08.30 to 17.00hrs Mon - Thu; 08.30 to 16.00hrs Fri)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification

**Physical hazards** Flam. Liq. 3 - H226

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Elicitation - EUH208 Repr. 2 - H361d STOT RE 1 - H372

**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** Xn;R20. Xi;R36/38. R10.

**Human health** The product is irritating to eyes and skin. Harmful by inhalation. May cause an allergic reaction.

**Physicochemical** Vapours may form explosive mixtures with air.

##### 2.2. Label elements

###### Pictogram



###### Signal word

Danger

## Lokfix Resin

<b>Hazard statements</b>	<p>EUH208 Contains COBALT OCTOATE. May produce an allergic reaction.</p> <p>H372 Causes damage to organs through prolonged or repeated exposure.</p> <p>H226 Flammable liquid and vapour.</p> <p>H361d Suspected of damaging the unborn child.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p>
<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P260 Do not breathe vapour/spray.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
<b>Contains</b>	<p>STYRENE</p>
<b>Supplementary precautionary statements</b>	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P314 Get medical advice/attention if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p>

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria. Polymerises when heated.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>STYRENE</b>	<b>30-60%</b>
CAS number: 100-42-5	EC number: 202-851-5
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361d STOT RE 1 - H372	

## Lokfix Resin

<b>COBALT OCTOATE</b> CAS number: 136-52-7 M factor (Acute) = 1	<b>&lt;1%</b>
<b>Classification</b> Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Repr. 2 - H361 Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	DO NOT induce vomiting. Get medical attention immediately. Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Vapours may cause drowsiness and dizziness. Headache.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Skin irritation. Allergic rash.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.

#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon.

## Lokfix Resin

### 5.3. Advice for firefighters

**Protective actions during firefighting** Cool containers exposed to flames with water until well after the fire is out.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes.

### 6.2. Environmental precautions

**Environmental precautions** Avoid release to the environment. Collect and dispose of spillage as indicated in Section 13.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** No smoking, sparks, flames or other sources of ignition near spillage. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Avoid the spillage or runoff entering drains, sewers or watercourses.

### 6.4. Reference to other sections

**Reference to other sections** For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Mechanical ventilation or local exhaust ventilation may be required. Avoid inhalation of vapours/spray and contact with skin and eyes. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store in closed original container at temperatures between 5°C and 30°C. Keep away from heat, sparks and open flame. Unsuitable containers: copper, zinc, aluminium, copper alloy, zinc alloy, aluminium alloy. May attack some plastics, rubber and coatings.

**Storage class** Chemical storage. Flammable liquid storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### STYRENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 430 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 1080 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

**Ingredient comments** WEL = Workplace Exposure Limits

**STYRENE (CAS: 100-42-5)**

## Lokfix Resin

### DNEL

Workers - Inhalation; Long term systemic effects: 85 mg/m<sup>3</sup>

Workers - Inhalation; Short term : 289 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 406 mg/kg/day

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Neoprene.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.

#### Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Do not smoke in work area.

#### Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Wear a respirator fitted with the following cartridge: Organic vapour filter.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Amber. Dark.
Odour	Pungent, characteristic of styrene.
Odour threshold	Not determined.
Initial boiling point and range	145°C @ 1 atm
Flash point	31°C
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 6.1 Lower flammable/explosive limit: 1.1
Vapour pressure	652 Pa @ 20°C
Vapour density	Not determined.
Relative density	1.1 @ 25°C
Solubility(ies)	Insoluble in water. Soluble in the following materials: Organic solvents.
Auto-ignition temperature	490°C

## Lokfix Resin

<b>Viscosity</b>	300 - 500 mPa s @ at 25°C
<b>Explosive properties</b>	Not considered to be explosive.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

### 9.2. Other information

<b>Other information</b>	Not available.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Not known. Polymerises easily with evolution of heat. Avoid heat. Avoid contact with peroxides. Radical formers.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Protect against direct sunlight.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong oxidising agents. Catalyst. Peroxides.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	The following toxicological assessment is based on a knowledge of the toxicity of the product's components. Oral LD50, rat >5000 mg/kg.
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### Acute toxicity - inhalation

<b>ATE inhalation (vapours mg/l)</b>	26.22
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<b>Inhalation</b>	Harmful by inhalation. Vapours may irritate throat/respiratory system. Symptoms following overexposure may include the following: Headache. Dizziness. Drowsiness.
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<b>Ingestion</b>	No specific health hazards known.
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<b>Skin contact</b>	Irritating to skin.
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<b>Eye contact</b>	Irritating to eyes.
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<b>Acute and chronic health hazards</b>	May cause an allergic reaction.
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<b>Route of entry</b>	Skin and/or eye contact
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### Toxicological information on ingredients.

## Lokfix Resin

### STYRENE

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 5,000.0

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 5,000.0

#### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 11.8

Species Rat

ATE inhalation (vapours mg/l) 11.8

#### Skin corrosion/irritation

Extreme pH Irritating.

#### Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

#### Skin sensitisation

Skin sensitisation Not sensitising.

#### Carcinogenicity

Carcinogenicity Found to produce lung tumours in mice. These tumours are not considered relevant to humans.

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

#### Reproductive toxicity

Reproductive toxicity - development Known reproductive toxicant based on animal evidence.

#### Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation.

Target organs Respiratory system, lungs

#### Specific target organ toxicity - repeated exposure

Target organs Liver Respiratory system, lungs Central nervous system

#### Aspiration hazard

Aspiration hazard Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

## Lokfix Resin

### SECTION 12: Ecological Information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

#### 12.1. Toxicity

**Toxicity** Expected to be ecotoxic to fish/daphnia/algae.

#### Ecological information on ingredients.

##### STYRENE

<b>Acute toxicity - fish</b>	LC50, 96 hours: 13.09 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	LC <sub>50</sub> , 48 hours: 8.428 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 5.901 mg/l, Algae

##### COBALT OCTOATE

<b><u>Acute aquatic toxicity</u></b>	
<b>LE(C)<sub>50</sub></b>	0.1 < L(E)C50 ≤ 1
<b>M factor (Acute)</b>	1

#### 12.2. Persistence and degradability

**Persistence and degradability** The product is readily biodegradable.

#### Ecological information on ingredients.

##### STYRENE

<b>Persistence and degradability</b>	The product is biodegradable.
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#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

#### Ecological information on ingredients.

##### STYRENE

<b>Bioaccumulative potential</b>	Not expected to be bioaccumulative
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#### 12.4. Mobility in soil

**Mobility** The product is insoluble in water. The product contains organic solvents which will evaporate easily from all surfaces.

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### 12.6. Other adverse effects

**Other adverse effects** Not relevant.

### SECTION 13: Disposal considerations



## Lokfix Resin

### 13.1. Waste treatment methods

<b>General information</b>	Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
<b>Disposal methods</b>	Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Waste material and any included combustible absorbent and containers should be suitable for incineration at an approved facility. Note that fully cured material is not considered as hazardous waste.

### **SECTION 14: Transport information**

#### 14.1. UN number

UN No. (ADR/RID)	2055
UN No. (IMDG)	2055
UN No. (ICAO)	2055
UN No. (ADN)	2055

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	STYRENE MONOMER, STABILIZED
Proper shipping name (IMDG)	STYRENE MONOMER, STABILIZED
Proper shipping name (ICAO)	STYRENE MONOMER, STABILIZED
Proper shipping name (ADN)	STYRENE MONOMER, STABILIZED

#### 14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

#### 14.5. Environmental hazards

## Lokfix Resin

### Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	3
Emergency Action Code	3Y
Hazard Identification Number (ADR/RID)	39
Tunnel restriction code	(D/E)

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>National regulations</b>	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
<b>EU legislation</b>	Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>General information</b>	The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	31/05/2015
<b>Revision</b>	4
<b>SDS number</b>	12488
<b>Risk phrases in full</b>	R10 Flammable. R20 Harmful by inhalation. R36/38 Irritating to eyes and skin. R38 Irritating to skin. R43 May cause sensitisation by skin contact.

## Lokfix Resin

### Hazard statements in full

EUH208 Contains COBALT OCTOATE. May produce an allergic reaction.  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H361 Suspected of damaging fertility or the unborn child.  
H361d Suspected of damaging the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H372 Causes damage to organs (Hearing organs) through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



## SAFETY DATA SHEET LOKFIX S25/P25 FILLER

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name LOKFIX S25/P25 FILLER

Product number A1664000UK9

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Hardener/filler component of two-part polyester grout.

#### 1.3. Details of the supplier of the safety data sheet

Supplier FOSROC Limited  
Drayton Manor Business Park  
Coleshill Road  
Tamworth  
Staffordshire  
B78 3XN  
enquiryuk@fosroc.com  
Tel. +44 (0) 1827 262222  
Fax. +44 (0) 1827 262444

#### 1.4. Emergency telephone number

Emergency telephone +44 (0) 1827 265 279 (08.30 to 17.00hrs Mon - Thu; 08.30 to 16.00hrs Fri)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

Physical hazards Not Classified

Health hazards Elicitation - EUH208

Environmental hazards Not Classified

Human health Dust may irritate the eyes and the respiratory system. May cause skin sensitisation or allergic reactions in sensitive individuals.

#### 2.2. Label elements

Hazard statements EUH208 Contains BENZOYL PEROXIDE. May produce an allergic reaction.

#### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

## LOKFIX S25/P25 FILLER

<b>SILICA SAND</b>	<b>60-100%</b>
CAS number: 14808-60-7	EC number: 238-878-4
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -
<b>BENZOYL PEROXIDE</b>	<b>&lt;1%</b>
CAS number: 94-36-0	EC number: 202-327-6
<b>Classification</b> Org. Perox. B - H241 Eye Irrit. 2 - H319 Skin Sens. 1 - H317	<b>Classification (67/548/EEC or 1999/45/EC)</b> E;R3 O;R7 Xi;R36 R43

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Get medical attention if any discomfort continues.
<b>Inhalation</b>	Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Get medical attention. Never give anything by mouth to an unconscious person. Do not induce vomiting.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Dust may irritate the respiratory system.
<b>Skin contact</b>	May cause sensitisation by skin contact.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.

#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Halon.

#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	If involved in a fire, it contains a component that will support combustion.
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## LOKFIX S25/P25 FILLER

**Hazardous combustion products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Risk of re-ignition after fire has been extinguished.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Stop leak if possible without risk. No smoking, sparks, flames or other sources of ignition near spillage. Avoid generation and spreading of dust. Dampen spillage with water. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Do not close container tightly. Risk of excess pressure build-up.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Provide adequate ventilation. Avoid spilling. Avoid contact with skin and eyes. Eliminate all sources of ignition. Avoid inhalation of dust. Avoid generation and spreading of dust. Contaminated clothing and shoes must be discarded.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep separate from food, feedstuffs, fertilisers and other sensitive material. Keep only in the original container. Keep container dry. Store out of direct sunlight. Store at temperatures not exceeding 25°C. Isolate from other materials.

**Storage class** Oxidiser storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **SILICA SAND**

Long-term exposure limit (8-hour TWA): WEL 0,1 mg/m<sup>3</sup> Respirable crystalline silica

#### **BENZOYL PEROXIDE**

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

## LOKFIX S25/P25 FILLER

### BENZOYL PEROXIDE (CAS: 94-36-0)

<b>DNEL</b>	Industry - Inhalation; Long term systemic effects: 11.75 mg/m <sup>3</sup> Industry - Dermal; Long term systemic effects: 6.6 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 0.000602 mg/l - Marine water; 0.0000602 mg/l - Intermittent release; .000602 mg/l - STP; 0.35 mg/l - Sediment (Freshwater); 0.338 mg/kg - Soil; 0.0758 mg/kg

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC).

#### Other skin and body protection

Wear apron or protective clothing in case of contact.

#### Hygiene measures

Provide eyewash station and safety shower. Promptly remove any clothing that becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. This product contains silica sands.  
The grain size distribution of silica sand present means that it is not classified as hazardous. However, any respirable crystalline dust generated by secondary processing may cause health effects.  
Prolonged and /or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness.  
Occupational exposure to respirable crystalline silica dust should be monitored and controlled

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Particulate filter, type P1.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Dusty powder.
<b>Colour</b>	Green.
<b>Odour</b>	Odourless.
<b>Odour threshold</b>	Not determined.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	Not applicable.

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<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Decomposition products may be flammable.
<b>Vapour pressure</b>	Not applicable.
<b>Relative density</b>	1.4 - 1.7 @ 20°C
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	>380°C
<b>Oxidising properties</b>	The product contains a substance classified as oxidising.

### 9.2. Other information

<b>Other information</b>	Not available.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	The reactivity data for this product will be typical of those for the following class of materials: Peroxides.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. The product may not be stable under some conditions of storage or use.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Will not polymerise.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong alkalis. Acids Iron Copper.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Benzoic acid.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Inhalation</b>	Irritating to respiratory system.
<b>Ingestion</b>	May cause irritation of mouth, throat and digestive tract.
<b>Skin contact</b>	May cause sensitisation by skin contact. Powder may irritate skin.
<b>Eye contact</b>	Irritating to eyes.
<b>Acute and chronic health hazards</b>	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

### Toxicological information on ingredients.

## BENZOYL PEROXIDE



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### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 5,000.0

Species Rat

### Acute toxicity - inhalation

Acute toxicity inhalation  
(LC<sub>50</sub> dust/mist mg/l) 24.3

Species Rat

ATE inhalation  
(dusts/mists mg/l) 24.3

### Carcinogenicity

Carcinogenicity NOAEL 500 mg/kg/day, Oral,

## SECTION 12: Ecological Information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

### 12.1. Toxicity

#### Ecological information on ingredients.

#### BENZOYL PEROXIDE

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 0.06 mg/l, Fish

Acute toxicity - aquatic  
invertebrates EC<sub>50</sub>, 48 hours: 0.11 mg/l, Daphnia magna

Acute toxicity - aquatic  
plants IC<sub>50</sub>, 72 hours: 0.06 mg/l, Algae

Acute toxicity -  
microorganisms , : 35 mg/l, Activated sludge

### 12.2. Persistence and degradability

**Persistence and degradability** The product contains mainly inorganic substances which are not biodegradable. The other substances in the product are expected to be readily biodegradable.

#### Ecological information on ingredients.

#### BENZOYL PEROXIDE

**Persistence and  
degradability** The product is biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

**Partition coefficient** Not determined.

#### Ecological information on ingredients.

#### BENZOYL PEROXIDE

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**Bioaccumulative potential** BCF: 66.6,

### 12.4. Mobility in soil

**Mobility** The product is insoluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78  
and the IBC Code**

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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<b>National regulations</b>	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>EU legislation</b>	Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>General information</b>	The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	08/06/2015
<b>Revision</b>	3
<b>SDS number</b>	12627
<b>Risk phrases in full</b>	NC Not classified. R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition. R36 Irritating to eyes. R43 May cause sensitisation by skin contact. R7 May cause fire.
<b>Hazard statements in full</b>	EUH208 Contains BENZOYL PEROXIDE. May produce an allergic reaction. H241 Heating may cause a fire or explosion. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.