



## SAFETY DATA SHEET FOSROC PRIMER 19 PART B

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

**Product Name** FOSROC PRIMER 19 PART B  
**Product No.** A2104020UK9

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

**Identified uses** Curing agent for two-part epoxy polyurethane system.

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

**Supplier:** Fosroc Ltd  
 Drayton Manor Business Park  
 Coleshill Road  
 Tamworth  
 Staffordshire  
 B77 2JU  
 +44 (0)1827 262222  
 +44 (0)1827 262444  
 uk@fosroc.com

#### 1.4. Emergency telephone number

+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 (1999/45/EEC)** Xn;R20, R48/20. Carc. Cat. 3;R40. R42/43. Xi;R36/37/38. R10.

#### Human Health

Contains non-volatile isocyanate. Heating may generate vapours which irritate the respiratory system, cause asthmatic breathing, breathlessness and risk of development of respiratory allergy.

#### 2.2. Label elements

**Contains:** DIPHENYLMETHANE DIISOCYANATE

#### Labelling



Harmful

#### Risk Phrases

R10	Flammable.
R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R42/43	May cause sensitisation by inhalation and skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.

#### 2.3. Other hazards

None under normal conditions.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## FOSROC PRIMER 19 PART B

### 3.2. Mixtures

<b>N-BUTYL ACETATE</b>	<b>30-60%</b>
<b>CAS-No.: 123-86-4</b>	<b>EC No.:</b>
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT Single 3 - H336	Classification (67/548/EEC) R10,R66,R67.
<b>DIPHENYLMETHANE DIISOCYANATE</b>	<b>30-60%</b>
<b>CAS-No.: 9016-87-9</b>	<b>EC No.:</b>
Classification (EC 1272/2008) Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT Single 3 - H335 STOT Rep. 2 - H373	Classification (67/548/EEC) Xn;R20,R48/20. Carc. Cat. 3;R40. Xi;R36/37/38. R42/43.

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

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### Inhalation.

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

#### Ingestion

Immediately rinse mouth and provide fresh air. DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Get medical attention immediately! Provide rest, warmth and fresh air.

#### Skin Contact

Remove affected person from source of contamination. Wash immediately with copious quantities of water. Remove contaminated clothing immediately. Obtain medical advice if skin orders develop.

#### Eye Contact

Remove victim immediately from source of exposure. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Obtain medical attention and bring these instructions.

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

#### General Information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

#### Inhalation.

Irritation of nose, throat and airway. May cause sensitisation by inhalation. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.

#### Ingestion

Harmful if swallowed. Fumes from the stomach contents may be inhaled resulting in the same symptoms as inhalation.

#### Skin Contact

Irritating and may cause redness and pain. May cause sensitisation by skin contact.

#### Eye Contact

Irritating and may cause redness and pain. May cause blurred vision and serious eye damage.

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

Treatment of acute irritation or bronchial constriction is primarily symptomatic.

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### SECTION 5: FIREFIGHTING MEASURES

#### **5.1. Extinguishing media**

##### **Extinguishing Media**

Extinguish with foam, carbon dioxide or dry powder. Larger fires: Water spray.

##### **Unsuitable Extinguishing Media**

Do not use water jet as an extinguisher, as this will spread the fire.

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

##### **Hazardous Combustion Products**

If heated, vapours/gases hazardous to health (e.g. CO, NOx, isocyanates) may be formed.

##### **Unusual Fire & Explosion Hazards**

Vapours may ignite.

##### **Specific Hazards**

Closed containers can burst violently when heated, due to excess pressure build-up.

#### **5.3. Advice for firefighters**

##### **Special Fire Fighting Procedures**

Water spray should be used to cool containers. Keep run-off water out of sewers and water sources. Dike for water control.

##### **Protective Measures In Fire**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Provide adequate ventilation.

#### **6.2. Environmental precautions**

Contain spillages with sand, earth or any suitable adsorbent material. Do not discharge into drains, water courses or onto the ground. Collect and dispose of spillage as indicated in section 13.

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

Dam and absorb spillages with sand, earth or other non-combustible material. Collect with absorbent, non-combustible material into suitable containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Do not close container tightly. Risk of excess pressure build-up. Keep damp in a safe ventilated area for several days.

#### **6.4. Reference to other sections**

For personal protection, see section 8. For waste disposal, see section 13.

### SECTION 7: HANDLING AND STORAGE

#### **7.1. Precautions for safe handling**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid eating, drinking and smoking when using the product.

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

Store in tightly closed original container in a dry, cool and well-ventilated place.

##### **Storage Class**

Chemical storage. Flammable liquid storage.

#### **7.3. 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**

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Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
DIPHENYLMETHANE DIISOCYANATE	WEL		0.02 mg/m <sup>3</sup>		0.07 mg/m <sup>3</sup>	
N-BUTYL ACETATE	WEL	150 ppm	724 mg/m <sup>3</sup>	200 ppm	966 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

### 8.2. Exposure controls

#### Protective Equipment



#### Engineering Measures

Provide adequate general and local exhaust ventilation. Explosion-proof general and local exhaust ventilation.

#### Respiratory Equipment

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment.

Chemical respirator with organic vapour cartridge.

#### Hand Protection

Use protective gloves. Butyl rubber gloves are recommended.

#### Eye Protection

Use safety goggles and face shield in case of splash risk.

#### Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

#### Hygiene Measures

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<u>Appearance</u>	Liquid
<u>Colour</u>	Brown
<u>Odour</u>	Musty (mouldy). Sharp
<u>Solubility</u>	Insoluble in water
<u>Initial Boiling Point and Boiling Range:</u>	126°C
<u>Relative Density</u>	1.2
<u>Vapour Pressure</u>	1.3 kPa 20°C
<u>Evaporation Rate</u>	1
<u>Flash Point (°C)</u>	29°C CC (Closed cup).
<u>Auto Ignition Temperature (°C)</u>	>350°C

### 9.2. Other information

No data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reaction with: Alcohols, glycols. Amines. Reacts with water forming carbon dioxide.

### 10.2. Chemical stability

Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

Reacts with substances which contain active hydrogen. Reacts with water, with formation of carbon dioxide. Reacts violently with strong oxidising substances.

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### **Hazardous Polymerisation**

May polymerise.

### **Polymerisation Description**

Polymerises above 200°C with evolution of CO<sub>2</sub>

### **10.4. Conditions to avoid**

Avoid exposing to heat and contact with strong oxidising substances. Water, moisture.

### **10.5. Incompatible materials**

### **Materials To Avoid**

Strong oxidising agents. Strong acids. Bases Moisture.

### **10.6. Hazardous decomposition products**

None under normal conditions. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: TOXICOLOGICAL INFORMATION

### **11.1. Information on toxicological effects**

**Acute Toxicity (Oral LD50)** > 12000 mg/kg Rat

The toxicological assessment is based on a knowledge of the toxicity of the product's components.

### **Inhalation**

Harmful by inhalation. May cause irritation to the respiratory system. May cause sensitisation by inhalation.

### **Ingestion.**

Harmful if swallowed. May cause nausea, vomiting and diarrhoea.

### **Skin Contact**

Harmful in contact with skin. Irritating to skin. May cause sensitisation by skin contact.

### **Eye Contact**

Irritating to eyes.

### **Target Organs**

Skin Eyes Respiratory system, lungs

### **Medical Considerations**

Persons with rash are directed to skin expert for examination of allergic eczema.

### **Specific Effects**

Repeated and prolonged skin contact may lead to skin disorders.

## SECTION 12: ECOLOGICAL INFORMATION

### **Ecotoxicity:**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product contains volatile, organic compounds which have a photochemical ozone creation potential.

### **12.1. Toxicity**

**Acute Toxicity - Fish** LC50 96 hours 18 mg/l Pimephales promelas (Fat-head Minnow)

The toxicological assessment is based on a knowledge of the toxicity of the product's components.

### **12.2. Persistence and degradability**

### **Degradability:**

The product contains persistent (not readily degradable) substances. The product reacts with water to form a solid insoluble reaction product which is non-degradable, according to information available.

### **12.3. Bioaccumulative potential**

### **Bioaccumulative Potential:**

The product contains potentially bioaccumulating substances.

### **12.4. Mobility in soil**

### **Mobility:**

The product contains organic solvents which will evaporate easily from all surfaces. The product hardens to a solid immobile substance.

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

This product does not contain any PBT or vPvB Substances.

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### 12.6. Other adverse effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### General Information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Note that fully cured material is not considered as hazardous waste.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

<u>UN No. (ADR/RID/ADN)</u>	1866
<u>UN No. (IMDG)</u>	1866
<u>UN No. (ICAO)</u>	1866

### 14.2 UN Proper shipping name

<u>Proper Shipping Name</u>	RESIN SOLUTION
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### 14.3 Transport hazard class(es)

<u>ADR/RID/ADN Class</u>	3
<u>ADR/RID/ADN Class</u>	Class 3: Flammable liquids.
<u>ADR Label No.</u>	3
<u>IMDG Class</u>	3
<u>ICAO Class/Division</u>	3

### Transport Labels



### 14.4. Packing group

<u>ADR/RID/ADN Packing group</u>	III
<u>IMDG Packing group</u>	III
<u>ICAO Packing group</u>	III

### 14.5. Environmental hazards

#### Environmentally Hazardous Substance/Marine Pollutant

No.

### 14.6. Special precautions for user

<u>EMS</u>	F-E, S-E
<u>Emergency Action Code</u>	•3YE
<u>Hazard No. (ADR)</u>	30
<u>Tunnel Restriction Code</u>	(D/E)

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

Not relevant.

## SECTION 15: REGULATORY INFORMATION

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

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### Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

### Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

### Guidance Notes

Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG(108).

### EU Legislation

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

**Revision Date** 22 January 2013

**Revision** 3

### Risk Phrases In Full

R10	Flammable.
R20	Harmful by inhalation.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R42/43	May cause sensitisation by inhalation and skin contact.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

### Hazard Statements In Full

EUH066	Repeated exposure may cause skin dryness or cracking.
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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.

### Disclaimer

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.