



SAFETY DATA SHEET FOSROC PRIMER P7

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

1.1. Product identifier

Product name FOSROC PRIMER P7
Product No. 1564002UK9

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

Identified uses Primer.

1.3. Details of the supplier of the safety data sheet

Supplier FOSROC Limited
Drayton Manor Business Park
Coleshill Road
Tamworth
Staffordshire
B78 3XN
Tel. +44 (0) 1827 262222
Fax. +44 (0) 1827 262444
enquiryuk@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. R42/43. Xi;R36. R10, R66.

Human health

Risk of sensitisation by inhalation. The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals in contact with skin. Contains non-volatile isocyanate. Heating may generate vapours which irritate the respiratory system, cause asthmatic breathing, breathlessness and risk of development of respiratory allergy.

Environment

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

Physical and Chemical Hazards

The product may form explosive vapours/air mixtures even at normal room temperatures. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

2.2. Label elements

Contains Polyisocyanate based on hexamethylene diisocyanate/toluene diisocyanate
TOLUENE-DIISOCYANATE

Labelling



Harmful



Flammable

Risk Phrases

R10

Flammable.

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R20	Harmful by inhalation.
R36	Irritating to eyes.
R42/43	May cause sensitisation by inhalation and skin contact.
R66	Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

N-BUTYL ACETATE	60-100%
CAS-No.: 123-86-4	EC No.:
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT SE 3 - H336	Classification (67/548/EEC) R10,R66,R67.
Polyisocyanate based on hexamethylene diisocyanate/toluene diisocyanate	10-30%
CAS-No.: 26426-91-5	EC No.:
Classification (EC 1272/2008) Eye Irrit. 2 - H319 Skin Sens. 1 - H317	Classification (67/548/EEC) Xi;R36. R43.
TRIETHYL ORTHOFORMATE	1-5%
CAS-No.: 122-51-0	EC No.: 204-550-4
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36/38. R10.
HEXAMETHYLENE-DI-ISOCYANATE	< 1%
CAS-No.: 822-06-0	EC No.: 212-485-8
Classification (EC 1272/2008) Acute Tox. 3 - H331 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335	Classification (67/548/EEC) T;R23 R42/43 Xi;R36/37/38

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TOLUENE-DIISOCYANATE		< 1%
CAS-No.: 26471-62-5	EC No.: 247-722-4	
Classification (EC 1272/2008) Acute Tox. 2 - H330 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 Aquatic Chronic 3 - H412	Classification (67/548/EEC) Carc. Cat. 3;R40 T+;R26 R42/43 Xi;R36/37/38 R52/53	

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

General information

Immediately remove any clothing soiled by the product.

Inhalation

In case of inhalation of spray mist: Move person into fresh air and keep at rest. Get medical attention if any discomfort continues.

Ingestion

Immediately rinse mouth and provide fresh air. Get medical attention immediately!

Skin contact

Wash skin thoroughly with soap and water for several minutes. Contact physician if irritation continues or sores develop.

Eye contact

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

In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death. Upper respiratory irritation.

Ingestion

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. Central nervous system depression.

Skin contact

Prolonged contact may cause redness, irritation and dry skin.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Foam, carbon dioxide or dry powder.

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

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x). Isocyanate vapours. In certain fire conditions, other toxic gases such as hydrogen cyanide (HCN) may also be formed.

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Specific hazards

When heated and in case of fire, very toxic nitrogen oxides are formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

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

Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from sources of ignition - No smoking. Avoid inhalation of vapours and contact with skin and eyes.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Remove mechanically: cover remainder with wet absorbent material. After one hour transfer to waste container and do not seal. Do not seal container (evolution of CO₂). Keep damp in a safe ventilated area for several days.

6.4. Reference to other sections

For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Provide good ventilation. Avoid spilling, skin and eye contact. Risk of vapour concentration on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented. Contaminated clothing and shoes must be discarded. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke 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. Store in closed original container at temperatures between 5°C and 25°C.

Storage Class

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

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
HEXAMETHYLENE-DI-ISOCYANATE	WEL		0.02 mg/m ³ (Sen)		0.07 mg/m ³ (Sen)	Sen, as NCO
N-BUTYL ACETATE	WEL	150 ppm	724 mg/m ³	200 ppm	966 mg/m ³	
TOLUENE-DIISOCYANATE	WEL		0.02 mg/m ³ (Sen)		0.07 mg/m ³ (Sen)	

WEL = Workplace Exposure Limit.

Sen = Capable of causing occupational asthma.

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HEXAMETHYLENE-DI-ISOCYANATE (CAS: 822-06-0)

DNEL

Industry	Inhalation.	Short Term	Systemic Effects	0.07 mg/m3
Industry	Inhalation.	Long Term	Systemic Effects	0.035 mg/m3
Industry	Inhalation.	Long Term	Local Effects	0.035 mg/m3

PNEC

Freshwater	>0.0774	mg/l
Marinewater	>0.00774	mg/l
Sediment (Freshwater)	>0.01334	mg/kg
Sediment (Marinewater)	>0.001334	mg/kg
Soil	>0.0026	mg/kg
STP	8.42	mg/l

TOLUENE-DIISOCYANATE (CAS: 26471-62-5)

DNEL

Industry	Inhalation.	Short Term	Systemic Effects	0.14 mg/m3
Industry	Inhalation.	Short Term	Local Effects	0.14 mg/m3
Industry	Inhalation.	Long Term	Systemic Effects	0.035 mg/m3
Industry	Inhalation.	Long Term	Local Effects	0.035 mg/m3

PNEC

Freshwater	0.013	mg/l
Marinewater	0.00125	mg/l
Soil	>1	mg/kg
STP	>1	mg/l

N-BUTYL ACETATE (CAS: 123-86-4)

DNEL

Professional	Inhalation.	Short Term	Systemic Effects	960 mg/m3
Professional	Inhalation.	Long Term	Systemic Effects	480 mg/m3

PNEC

Freshwater	0.18	mg/l
Marinewater	0.018	mg/l
Sediment (Freshwater)	0.981	mg/kg
Sediment (Marinewater)	0.0981	mg/kg
Soil	0.0903	mg/kg
STP	35.6	mg/l
Intermittent release	0.36	mg/l

8.2. Exposure controls

Protective equipment



Engineering measures

All handling to take place in well-ventilated area. Provide adequate general and local exhaust ventilation.

Respiratory equipment

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

Use respiratory equipment with gas filter, type AX.

Hand protection

Chemical resistant protective gloves (EN 374). Nitrile. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection

Use approved safety goggles or face shield.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Skin protection

Wear apron or protective clothing in case of contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Liquid

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Colour	Straw.
Odour	Slightly pungent odour.
Solubility	Insoluble in water
Initial boiling point and boiling range (°C)	125
Relative density	1.02
Vapour pressure	1.4 kPa 20
Flash point (°C)	24°
Auto Ignition Temperature (°C)	370

9.2. Other information

Volatile Organic Compound (VOC)	770 g/litre
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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Exothermic reaction with: Amines. Alcohols, glycols. Water, forming CO₂; in closed containers, risk of bursting owing to pressure increase.

10.2. Chemical stability

The substance is hygroscopic and will absorb water by contact with the moisture in the air.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

Water reactive material. Cyanides. Alcohols, glycols.

10.6. Hazardous decomposition products

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

General information

Preparation contains small volumes of isocyanate which may cause allergic reaction and irritation of respiratory system.

Medical Considerations

Persons who suffer from hypersensitivity of the respiratory tract (e.g. asthmatics and those who suffer from chronic bronchitis) are advised not to work with this product.

Toxicological information on ingredients.

HEXAMETHYLENE-DI-ISOCYANATE (CAS: 822-06-0)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 5000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 7000 mg/kg

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TOLUENE-DIISOCYANATE (CAS: 26471-62-5)

Acute toxicity:

Acute Toxicity (Dermal LD50)

> 9400 mg/kg Rabbit

Carcinogenicity:

No evidence of carcinogenicity in animal studies

Specific target organ toxicity - single exposure:

May cause respiratory irritation.

Target Organs

Respiratory system, lungs

Specific target organ toxicity - repeated exposure:

Not classified as a specific target organ toxicant after repeated exposure.

N-BUTYL ACETATE (CAS: 123-86-4)

Acute toxicity:

Acute Toxicity (Oral LD50)

~ 11770 mg/kg Rat

Acute Toxicity (Dermal LD50)

14112 mg/kg Rabbit

Inconclusive data.

Skin Corrosion/Irritation:

Not irritating.

Serious eye damage/irritation:

Not Irritating.

Respiratory or skin sensitisation:

Not Sensitising.

Germ cell mutagenicity:

This substance has no evidence of mutagenic properties.

Specific target organ toxicity - single exposure:

STOT - Single exposure

NOAEC 500 ppmV/4hr Inhalation. Rat

Vapours may cause drowsiness and dizziness.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be hazardous to the environment.

12.1. Toxicity

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Ecological information on ingredients.

Acute Fish Toxicity

Not considered toxic to fish.

Acute Toxicity - Aquatic Invertebrates

NOEC 1.1 mg/l Daphnia magna

21 days

LC 50, 96 Hrs. Fish mg/l

18

EC 50, 48 Hrs. Daphnia, mg/l

44

12.2. Persistence and degradability

Ecological information on ingredients.

Stability (Hydrolysis)

Half-life: 0.23 hours 23°C

Stability (Hydrolysis)

Half-life: 0.7 hours 27°C

Degradability

The product is easily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

Ecological information on ingredients.

Bioaccumulative potential

The product is not bioaccumulating.

Bioaccumulative potential

Not expected to be bioaccumulative

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

Bioaccumulation factor

BCF 15.3

Partition coefficient

log Pow 2.3

12.4. Mobility in soil

Mobility:

The product is insoluble in water.

Ecological information on ingredients.

Mobility:

The product reacts with water and will generate heat.

HEXAMETHYLENE-DI-ISOCYANATE (CAS: 822-06-0)

TOLUENE-DIISOCYANATE (CAS: 26471-62-5)

N-BUTYL ACETATE (CAS: 123-86-4)

HEXAMETHYLENE-DI-ISOCYANATE (CAS: 822-06-0)

TOLUENE-DIISOCYANATE (CAS: 26471-62-5)

N-BUTYL ACETATE (CAS: 123-86-4)

HEXAMETHYLENE-DI-ISOCYANATE (CAS: 822-06-0)

TOLUENE-DIISOCYANATE (CAS: 26471-62-5)

N-BUTYL ACETATE (CAS: 123-86-4)

HEXAMETHYLENE-DI-ISOCYANATE (CAS: 822-06-0)

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12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

Ecological information on ingredients.

N-BUTYL ACETATE (CAS: 123-86-4)

Not Classified as PBT/vPvB by current EU criteria.

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

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Do not allow runoff to sewer, waterway or ground. Note that fully cured material is not considered as hazardous waste.

Waste Class

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

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
<u>Transport Labels</u>	



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

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Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS	F-E, S-E
Emergency Action Code	•3Y
Hazard No. (ADR)	30
Tunnel Restriction Code	(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

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

Isocyanates toxic hazards and precautions EH16.

EU Legislation

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

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.

National Regulations

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Water hazard classification

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information

Only trained personnel should use this material.

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 29 April 2014

Revision 2

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Risk Phrases In Full

R10	Flammable.
R20	Harmful by inhalation.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/38	Irritating to eyes and skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36	Irritating to eyes.
R40	Limited evidence of a carcinogenic effect.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R66	Repeated exposure may cause skin dryness or cracking.
R23	Toxic by inhalation.
R67	Vapours may cause drowsiness and dizziness.
R26	Very toxic by inhalation.

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.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
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.
H412	Harmful to aquatic life with long lasting effects.