



## SAFETY DATA SHEET

### Fosroc Galvafruid

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

##### 1.1. Product identifier

**Product name** Fosroc Galvafruid  
**Product number** 1590020UK9, 1590022UK9, 1590042UK9, 1590080UK9, 1590120UK9

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

**Identified uses** Rust-preventing 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  
 England  
 Tel: +44 (0) 1827 262222  
 Fax: +44 (0) 1827 262444  
 enquiryuk@fosroc.com

##### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)

#### SECTION 2: Hazards identification

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

###### Classification (EC 1272/2008)

**Physical hazards** Flam. Liq. 3 - H226 Water-react. 3 - H261

**Health hazards** Lact. - H362 Asp. Tox. 1 - H304

**Environmental hazards** Aquatic Chronic 1 - H410

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

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

##### 2.2. Label elements

###### Hazard pictograms



**Signal word**

Danger

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<b>Hazard statements</b>	H226 Flammable liquid and vapour. H261 In contact with water releases flammable gases. H362 May cause harm to breast-fed children. H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P260 Do not breathe vapour/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
<b>Supplemental label information</b>	EUH066 Repeated exposure may cause skin dryness or cracking. EUH018 In use may form flammable/explosive vapour-air mixture.
<b>Contains</b>	HYDROCARBONS, C9, aromatics, CHLORINATED PARAFFIN (C14-17)
<b>Supplementary precautionary statements</b>	P201 Obtain special instructions before use. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P263 Avoid contact during pregnancy and while nursing. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P308+P313 IF exposed or concerned: Get medical advice/ attention. P331 Do NOT induce vomiting. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P391 Collect spillage. P402+P404 Store in a dry place. Store in a closed container. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>ZINC POWDER</b>	<b>60-100%</b>
CAS number: 7440-66-6	EC number: 231-175-3
M factor (Chronic) = 1	
<b>Classification</b>	
Pyr. Sol. 1 - H250	
Water-react. 1 - H260	
Aquatic Chronic 1 - H410	

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<b>HYDROCARBONS, C9, aromatics</b>	<b>10-30%</b>
CAS number: 64742-95-6	EC number: 918-668-5
	REACH registration number: 01-2119455851-35-0000
<b>Classification</b>	
Flam. Liq. 3 - H226	
STOT SE 3 - H335, H336	
Asp. Tox. 1 - H304	
Aquatic Chronic 2 - H411	
<b>ZINC OXIDE</b>	<b>1-5%</b>
CAS number: 1314-13-2	EC number: 215-222-5
M factor (Acute) = 1	M factor (Chronic) = 1
<b>Classification</b>	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
<b>CHLORINATED PARAFFIN (C14-17)</b>	<b>1-5%</b>
CAS number: 85535-85-9	EC number: 287-477-0
	REACH registration number: 01-2119519269-33-xxxx
M factor (Acute) = 1	M factor (Chronic) = 100
<b>Classification</b>	
Lact. - H362	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
<b>CALCIUM OXIDE</b>	<b>&lt;1%</b>
CAS number: 1305-78-8	EC number: 215-138-9
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
STOT SE 3 - H335	

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>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Give plenty of water to drink. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

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**Skin contact** Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

**Eye contact** Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention.

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

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** Prolonged inhalation of high concentrations may damage respiratory system.

**Ingestion** The product irritates mucous membranes and may cause abdominal discomfort if swallowed.

**Skin contact** Product has a defatting effect on skin. May cause allergic contact eczema. Prolonged or repeated exposure may cause severe irritation.

**Eye contact** May cause severe eye irritation.

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

**Notes for the doctor** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with the following media: Dry chemicals, sand, dolomite etc.

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

**Specific hazards** Dust may form explosive mixture with air. The product is flammable.

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

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters** Wear chemical protective suit.

## SECTION 6: Accidental release measures

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

**Personal precautions** For personal protection, see Section 8.

### 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** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. 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

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### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours.

### 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.

**Storage class** 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

#### **HYDROCARBONS, C9, aromatics**

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

#### **CALCIUM OXIDE**

Long-term exposure limit (8-hour TWA): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### ZINC POWDER (CAS: 7440-66-6)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 5 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 83 mg/kg/day
<b>PNEC</b>	- Fresh water; 20.6 µg/l - marine water; 6.1 µg/l

#### HYDROCARBONS, C9, aromatics (CAS: 64742-95-6)

<b>DNEL</b>	Professional - Dermal; systemic effects: 25 mg/kg/day Professional - Inhalation; systemic effects: 150 mg/m <sup>3</sup> Consumer - Oral; systemic effects: 11 mg/kg/day Consumer - Inhalation; systemic effects: 32 mg/m <sup>3</sup> Consumer - Dermal; systemic effects: 11 mg/kg/day
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#### CHLORINATED PARAFFIN (C14-17) (CAS: 85535-85-9)

<b>DNEL</b>	Industry - Inhalation; Long term systemic effects: 1.6 mg/m <sup>3</sup> Industry - Dermal; Long term systemic effects: 47.9 mg/kg/day Consumer - Oral; Long term systemic effects: 0.58 mg/kg/day Consumer - Inhalation; Long term systemic effects: 2 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 28.75 mg/kg/day
<b>PNEC</b>	- Fresh water; 1000 mg/l - marine water; 200 mg/l - STP; 80 mg/l

#### CALCIUM OXIDE (CAS: 1305-78-8)

<b>DNEL</b>	Workers - Inhalation; Long term local effects: 1 mg/m <sup>3</sup> Workers - Inhalation; Short term local effects: 4 mg/m <sup>3</sup>
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**PNEC** - Fresh water; 0.37 mg/l  
- marine water; 0.24 mg/l

### 2-piperazin-1-ylethylamine (CAS: 140-31-8)

**DNEL** Workers - Inhalation; Long term systemic effects: 3.6 mg/m<sup>3</sup>  
Workers - Inhalation; Short term systemic effects: 21.4 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 3.3 mg/kg/day  
Workers - Dermal; Short term systemic effects: 20 mg/kg/day

**PNEC** - Fresh water; 0.0058 mg/l  
- marine water; 0.58 mg/l

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

#### Eye/face protection

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

#### Hand protection

It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

#### Other skin and body protection

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

#### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type A2.

## SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Grey.
<b>Odour</b>	Aromatic.
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	Not determined.
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and range</b>	155 - 181°C @ 1 atm
<b>Flash point</b>	41°C
<b>Evaporation rate</b>	0.2 (ethanol = 1)
<b>Evaporation factor</b>	Not determined.
<b>Flammability (solid, gas)</b>	Not applicable.

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<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Other flammability</b>	Not determined.
<b>Vapour pressure</b>	0.25 kPa @ 20°C
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	2.6 @ 25°C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	>450°C
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	6 P @ 25°C
<b>Explosive properties</b>	Vapours may form explosive mixtures with air.
<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

**Volatile organic compound** This product contains a maximum VOC content of 495 g/litre.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Acids. Alkalis. Oxidising materials.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

### 10.5. Incompatible materials

**Materials to avoid** Acids. Bases Oxidising materials.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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<b>Inhalation</b>	May cause respiratory system irritation. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
<b>Ingestion</b>	Pneumonia may be the result if vomited material containing solvents reaches the lungs.
<b>Skin contact</b>	Prolonged and frequent contact may cause redness and irritation.
<b>Eye contact</b>	Irritating to eyes.
<b>Acute and chronic health hazards</b>	Prolonged inhalation of high concentrations may damage respiratory system. Product has a defatting effect on skin. May cause allergic contact eczema. Prolonged or repeated exposure may cause severe irritation. May cause severe eye irritation. The product irritates mucous membranes and may cause abdominal discomfort if swallowed.
<b>Target organs</b>	Skin Eyes Respiratory system, lungs

### SECTION 12: Ecological information

**Ecotoxicity** The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 12.1. Toxicity

#### 12.2. Persistence and degradability

**Persistence and degradability** The product is not expected to be biodegradable.

#### 12.3. Bioaccumulative potential

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

**Partition coefficient** Not determined.

#### 12.4. Mobility in soil

**Mobility** The product contains substances which are insoluble in water and which may spread on water surfaces. The product contains volatile substances which may spread in the atmosphere.

#### 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

#### 14.1. UN number

**UN No. (ADR/RID)** 1263

**UN No. (IMDG)** 1263

**UN No. (ICAO)** 1263

**UN No. (ADN)** 1263



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### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	PAINT RELATED MATERIAL (ZINC POWDER - ZINC DUST (STABILISED))
<b>Proper shipping name (IMDG)</b>	PAINT RELATED MATERIAL (ZINC POWDER - ZINC DUST (STABILISED))
<b>Proper shipping name (ICAO)</b>	PAINT RELATED MATERIAL (ZINC POWDER - ZINC DUST (STABILISED))
<b>Proper shipping name (ADN)</b>	PAINT RELATED MATERIAL (ZINC POWDER - ZINC DUST (STABILISED))

### 14.3. Transport hazard class(es)

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

#### Transport labels



### 14.4. Packing group

<b>ADR/RID packing group</b>	III
<b>IMDG packing group</b>	III
<b>ICAO packing group</b>	III
<b>ADN packing group</b>	III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

<b>EmS</b>	F-E, S-E
<b>ADR transport category</b>	3
<b>Emergency Action Code</b>	•3Y
<b>Hazard Identification Number (ADR/RID)</b>	30
<b>Tunnel restriction code</b>	(D/E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

**SECTION 15: Regulatory information**

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### 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>	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). Commission Regulation (EU) No 2015/830 of 28 May 2015.
<b>Guidance</b>	Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision. Revised classification.
<b>Revision date</b>	27/01/2020
<b>Revision</b>	7a
<b>Supersedes date</b>	04/11/2019
<b>Hazard statements in full</b>	H226 Flammable liquid and vapour. H250 Catches fire spontaneously if exposed to air. H260 In contact with water releases flammable gases which may ignite spontaneously. H261 In contact with water releases flammable gases. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H362 May cause harm to breast-fed children. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic 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.