

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006

Print date: Revision date: 30.11.2010 Revision no.: 1,10  
**CircoPower SFM** 11194-0008

---

**1. Identification of the substance/mixture and of the company/undertaking****Identification of the substance or mixture****CircoPower SFM****Use of the substance/mixture**

Cleaning agent

**Company/undertaking identification****Supplier**

GEA Farm Technologies (UK) Ltd.  
Wylle Works, Watery Lane, Bishopstrow,  
GB Warminster, Wiltshire BA12 9HT  
Telephone: + 44 (0)1985 216444

Responsible Department:  
For technical or commercial enquiries:  
Tel: + 44 (0)1985 216444 Fax: + 44 (0)1985 216692  
e-mail: info.geafarmtechnologies@geagroup.com  
24 Hour Emergency Telephone No.  
For advice on chemical emergencies, spillages, fires or First Aid  
+44 (0) 870 190 6777 (GEA Farm Technologies)

Responsible for the safety data sheet: sds@gbk-ingelheim.de

**2. Hazards identification****Classification**

Indications of danger : Corrosive  
R-phrases:  
Causes burns.

**3. Composition/information on ingredients****Chemical characterization ( Mixture )**

Aqueous solution

**Hazardous components**

EC No.	CAS No.	Chemical name	Quantity	Classification
231-633-2	7664-38-2	Phosphoric acid	< 30 %	C R34
231-714-2	7697-37-2	Nitric acid	< 20 %	O, C R8-35

Full text of each relevant R phrase can be found in heading 16.

**4. First aid measures****General information**

Remove and wash contaminated clothing before re-use.  
Consult a physician.

**After inhalation**

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.  
If you feel unwell, seek medical advice.



**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006

Print date:

Revision date: 30.11.2010

Revision no.:

1,10

**CircoPower SFM**

11194-0008

**Advice on protection against fire and explosion**

No special protective measures against fire required.

**Storage****Requirements for storage rooms and vessels**

Do not use aluminium or light metal containers for warehousing.

Keep containers tightly closed in a dry, well-ventilated place.

**Advice on storage compatibility**

Incompatible with bases.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**8. Exposure controls/personal protection****Exposure limit values****Exposure limits (EH40)**

CAS No.	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
7697-37-2	Nitric acid	-	-		TWA (8 h)	WEL
		1	2.6		STEL (15 min)	WEL
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

**Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothing before re-use.

**Respiratory protection**

No personal respiratory protective equipment normally required.

**Hand protection**

Protective gloves resistant to chemicals made off natural-rubber latex, minimum coat thickness 0.6 mm, permeation resistance (wear duration) approx. 240 minutes, i.e. protective glove &lt;Lapren 706&gt; made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Eye protection**

Tightly fitting goggles.

Eye wash bottle with pure water.

**Skin protection**

Acid-resistant protective clothing.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006

Print date: Revision date: 30.11.2010 Revision no.: 1,10  
**CircoPower SFM** 11194-0008

---

---

## **9. Physical and chemical properties**

### **General information**

Physical state: Liquid  
Colour: Red  
Odour: Mild

### **Important health, safety and environmental information**

	Test method
pH-Value (at 20 °C):	< 1

### **Changes in the physical state**

Flash point:	n.a.
Lower explosion limits:	n.a.
Upper explosion limits:	
Density (at 20 °C):	1,20 - 1,25 g/cm <sup>3</sup>
Water solubility: (at 20 °C)	Completely miscible

### **Other information**

Ignition temperature:	n.a.
-----------------------	------

---

## **10. Stability and reactivity**

### **Conditions to avoid**

To avoid thermal decomposition, do not overheat.  
Exothermic reaction with: Bases.  
Gives off hydrogen by reaction with metals.  
Reacts violently with water.

### **Materials to avoid**

Bases.

### **Hazardous decomposition products**

Nitrous oxides (NO<sub>x</sub>).  
Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>)

### **Further information**

No decomposition if stored and applied as directed.

---

## **11. Toxicological information**

### **Empirical data on effects on humans**

The product causes burns of eyes, skin and mucous membranes.  
Ingestion of aqueous solution causes gastrointestinal burns.  
Hazard of gastric perforation.

---

## **12. Ecological information**

### **Further information**

Do not flush into surface water or sanitary sewer system.  
Low hazard to waters.  
A pH-change becomes possible in water.

---

## **13. Disposal considerations**

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006

Print date: Revision date: 30.11.2010 Revision no.: 1,10  
**CircoPower SFM** 11194-0008

**Advice on disposal**

Disposal in accordance with local regulations.

**14. Transport information****Land transport (ADR/RID)**

UN number: 3264

**Description of the goods**

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid, Phosphoric acid)

ADR/RID class: 8

Classification code: C1

Warning plate

Hazard-no.: 80

Hazard label: 8



ADR/RID packing group: II

Limited quantity: LQ22

Tunnel restriction code: E

**Other applicable information (land transport)**

Transport category: 2

**Marine transport**

UN number: 3264

**Description of the goods**

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid, phosphoric acid)

IMDG code: 8

Hazard label: 8



IMDG packing group: II

EmS: F-A, S-B

Limited quantity: 1 L / 30 kg

**Air transport**

UN/ID number: 3264

**Description of the goods**

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid, phosphoric acid, mixture)

ICAO/IATA-DGR: 8

Hazard label: 8



ICAO packing group: II

Limited quantity Passenger: Y808 / 0,5 L

IATA-packing instructions - Passenger: 808

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006

Print date: Revision date: 30.11.2010 Revision no.: 1,10  
**CircoPower SFM** 11194-0008

---

IATA-max. quantity - Passenger: 1 L  
 IATA-packing instructions - Cargo: 812  
 IATA-max. quantity - Cargo: 30 L

---

**15. Regulatory information**

**Labelling**

**Additional advice on labelling**

According to EC-regulations the product is to be labelled as follows:

Danger symbols: C - Corrosive



C - Corrosive

**Hazardous components which must be listed on the label**

Nitric acid  
 Phosphoric acid

**R phrases**

34 Causes burns.

**S phrases**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 28 After contact with skin, wash immediately with plenty of water.  
 35 This material and its container must be disposed of in a safe way.  
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**EU regulatory information**

1999/13/EC (VOC): 0 %

**National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.  
 Water contaminating class (D): 1 - slightly water contaminating

---

**16. Other information**

**Full text of R-phrases referred to under sections 2 and 3**

08 Contact with combustible material may cause fire.  
 34 Causes burns.  
 35 Causes severe burns.

**Further Information**

The information in this Safety Data Sheet refer to the concentrate, not to the ready to use solution.

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.  
 The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.  
 This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006

Print date:

Revision date: 30.11.2010

Revision no.: 1,10

**CircoPower SFM**

11194-0008

---

(n.a. = not applicable; n.d. = not determined)

---

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*