

Productname : Ferrokleen pro      Creationdate : 29.06.17 Version : 2.0  
 Ref.Nr.: BDS000227\_3\_20170629 (EN)      Replaces: BDS000227\_20140506

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

### 1.1. Product identifier

Ferrokleen pro  
Bulk

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

Cleaners - Heavy duty

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

CRC Industries Europe bvba  
 Touwslagerstraat 1  
 9240 Zele  
 Belgium  
 Tel.: +32(0)52/45.60.11  
 Fax.: +32(0)52/45.00.34  
 E-mail : hse@crcind.com

Subsidiaries		Tel	Fax
CRC Industries Finland Oy	Laurinkatu 57 A 23 B, 08100 Lohja	+358/(19)32.921	
CRC Industries France	6, avenue du marais, C.S. 90028, 95102 Argenteuil Cedex	01.34.11.20.00	01.34.11.09.96
CRC Industries Deutschland GmbH	Südring 9, D-76473 Iffezheim	(07229) 303 0	(07229)30 32 66
CRC INDUSTRIES IBERIA S.L.U.	GREMIO DEL CUERO-PARC.96, POLIGONO INDUSTRI. DE HONTORIA, 40195 SEGOVIA	0034/921.427.546	0034/921.436.270
CRC Industries Sweden	Laxfiskevägen 16, 433 38 Partille	0046/31 706 84 80	0046/31 27 39 91

### 1.4. Emergency telephone number

CRC Industries Europe, Belgium: Tel.: +32(0)52/45.60.11 (office hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

**Physical:** Substance or mixture corrosive to metals, category 1  
 May be corrosive to metals.

Classification is based on test data.

**Health:** Skin corrosion, category 1A



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Serious eye damage, category 1  
Causes severe skin burns and eye damage.

Classification based on calculation method.

**Environment:** Not classified

Classification based on calculation method.

**Other hazards :** Not classified

## 2.2. Label elements

### Labelling according to Regulation (EC) No 1272/2008

**Product identifier:** Contains:  
phosphoric acid, orthophosphoric acid

**Hazard pictogram(s):**



**Signal word:** Danger

**Hazard statement(s):** H290 : May be corrosive to metals.  
H314 : Causes severe skin burns and eye damage.

**Precautionary statement(s):** P102 : Keep out of reach of children.  
P234 : Keep only in original container.  
P280 : Wear protective gloves/protective clothing/eye protection/face protection.  
P301/330/331 : IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303/361/353 : IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305/351/338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 : Immediately call a POISON CENTER or doctor/physician.  
P405 : Store locked up.  
P501-2 : Dispose of contents/container to an authorised waste collection point.

**Regulation (EC) No 648/2004 on detergents:** aliphatic hydrocarbons < 5 %  
non-ionic surfactants < 5 %  
benzisothiazolinone

## 2.3. Other hazards

No experimental data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures



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Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
phosphoric acid,orthophosphoric acid	01-2119485924-24	7664-38-2	231-633-2	30-60	Met. Corr. 1, Skin Corr. 1B	H290,H314	A
1-methoxy-2-propanol; monopropylene glycol methyl ether	01-2119457435-35	107-98-2	203-539-1	1-5	Flam. Liq. 3, STOT SE 3	H226,H336	A
sulphamidic acid; sulphamic acid; sulfamic acid	01-2119488633-28	5329-14-6	226-218-8	1-5	Eye Irrit. 2, Skin Irrit. 2, Aquatic Chronic 3	H319,H315,H412	
Paraffins (petroleum), normal C>10	01-2119562696-25	64771-71-7	265-232-9	<1	Asp. Tox. 1	H304	
alcohols, C9-11, ethoxylated	01-2119980051-45	68439-46-3	614-482-0	<1	Acute Tox. 4, Eye Dam. 1	H302,H318	

**Explanation notes**

A : substance with Community workplace exposure limit

(\* Explanation phrases : see chapter 16)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Contact with eyes :</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Contact with skin :</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.
<b>Inhalation :</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<b>Ingestion :</b>	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

<b>Inhalation :</b>	May cause irritation. Symptoms : sore throat, cough
<b>Ingestion :</b>	May cause gastrointestinal disturbances Symptoms : sore throat, abdominal pain, nausea, vomiting
<b>Skin contact :</b>	Causes severe burns. Symptoms : redness and pain
<b>Eye contact :</b>	Causes serious eye damage. Symptoms : redness and pain, impaired vision

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

**General Advice :** If you feel unwell, seek medical advice (show the label where possible)  
 If symptoms persist always call a doctor

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media



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foam, carbon dioxide or dry agent

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

May give off noxious and toxic fumes in a fire

## 5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water  
In case of fire, do not breathe fumes  
Wear breathing apparatus

# SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes.  
Ensure adequate ventilation  
Wear suitable protective clothing including eye/face protection.

## 6.2. Environmental precautions

Do not allow to enter public sewers and watercourses  
If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

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

Absorb spillage in suitable inert material

## 6.4. Reference to other sections

For further information see section 8

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Do not breathe aerosols or vapours.  
Ensure adequate ventilation  
Avoid contact with skin and eyes.  
Wash thoroughly after use  
Wear protective gloves/protective clothing/eye protection/face protection.  
Eyewash bottles should be available

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

Keep container tightly closed, in a cool, well ventilated place.  
Keep out of reach of children.



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### 7.3. Specific end use(s)

Cleaners - Heavy duty

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits :

Hazardous ingredient	CAS-nr.	method	
<b>EU established exposure limits:</b>			
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	TWA	100 ppm
		STEL	150 ppm
phosphoric acid,orthophosphoric acid	7664-38-2	TWA	1 mg/m3
		STEL	3 mg/m3
<b>National established exposure limits, United Kingdom</b>			
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	TWA	100 ppm
		STEL	150 ppm
phosphoric acid,orthophosphoric acid	7664-38-2	TWA	1 mg/m3
		STEL	2 mg/m3

### 8.2. Exposure controls

<b>Control procedures :</b>	Ensure adequate ventilation
<b>Personal protection :</b>	Take precautions to avoid contact with skin and eyes when handling the product. It is good practice to wear gloves and to provide adequate ventilation whenever using the product. In all cases handle and use the product in accordance with good industrial hygiene practices.
<b>inhalation :</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
recommended respiratory protection:	air purifying respirator equipped with ABEK type cartridge in combination with an oil proof solid and liquid particulate filter
<b>hands and skin :</b>	When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through.
Recommended gloves:	(neoprene)
<b>eyes :</b>	Wear safety eyewear according to EN 166.
<b>Environmental protection:</b>	Avoid release to the environment. Collect spillage.

## SECTION 9: Physical and chemical properties

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



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**Apperance : physical state :** Liquid.  
**colour :** Colourless to yellow.  
**odour :** Characteristic odor.  
**pH :** < 2  
**Boiling point/range :** Not applicable.  
**Flash point :** None  
**Evaporation rate :** Not applicable.  
**Explosion limits : upper limit :** Not applicable.  
**lower limit :** Not applicable.  
**Vapour pressure :** Not applicable.  
**Relative density :** 1.228 g/cm<sup>3</sup> (@ 20°C).  
**Solubility in water :** Soluble in water  
**Auto-ignition :** > 200 °C  
**Viscosity :** Not applicable.

## 9.2. Other information

**VOC = volatile organic compounds** 15 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions known if used for its intended purpose

### 10.2. Chemical stability

Stable

### 10.3. Possibility of hazardous reactions

In case of fire, do not breathe fumes  
May give off noxious and toxic fumes in a fire

### 10.4. Conditions to avoid

heat

### 10.5. Incompatible materials

Strong oxidising agent  
May be corrosive to metals.

### 10.6. Hazardous decomposition products

CO,CO<sub>2</sub>



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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**acute toxicity:** based on available data the classification criteria are not met  
**skin corrosion/irritation:** Causes severe skin burns and eye damage.  
**serious eye damage/irritation:** Causes severe skin burns and eye damage.  
**respiratory or skin sensitisation:** based on available data the classification criteria are not met  
**germ cell mutagenicity:** based on available data the classification criteria are not met  
**carcinogenicity:** based on available data the classification criteria are not met  
**toxicity for reproduction:** based on available data the classification criteria are not met  
**STOT-single exposure:** based on available data the classification criteria are not met  
**STOT repeated exposure:** based on available data the classification criteria are not met  
**aspiration hazard:** based on available data the classification criteria are not met

### Information on likely routes of exposure:

**Inhalation :** May cause irritation.  
**Ingestion :** May cause gastrointestinal disturbances  
**Skin contact :** Causes severe burns.  
**Eye contact :** Causes serious eye damage.

### Toxicological data :

Hazardous ingredient	CAS-nr.	method	
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	LD50 oral rat	4016 mg/kg
		LC50 inhal.rat	27596 mg/l
		LD50 derm.rabit	2000 mg/kg
alcohols, C9-11, ethoxylated	68439-46-3	LD50 oral rat	1000-1400 mg/kg
		LD50 derm.rabit	>2000 mg/kg

## SECTION 12: Ecological information

### 12.1. Toxicity

Not classified

### Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	LC50 fish	6812 mg/l
		EC50 daphnia	23300 mg/l
alcohols, C9-11, ethoxylated	68439-46-3	LC50 fish	10-100 mg/l
		EC50 daphnia	5-25 mg/l



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### 12.2. Persistence and degradability

No experimental data available

### 12.3. Bioaccumulative potential

No experimental data available

### 12.4. Mobility in soil

No experimental data available

### 12.5. Results of PBT and vPvB assessment

No experimental data available

### 12.6. Other adverse effects

No experimental data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Product :** This material and its container must be disposed of in a safe way.  
Do not discharge into drains or the environment, dispose to an authorised waste collection point.

**Contaminated packaging :** Disposal should be in accordance with local, state or national legislation

## SECTION 14: Transport information

### 14.1. UN number

UN-number : 1805

### 14.2. UN proper shipping name

Proper shipping name: PHOSPHORIC ACID SOLUTION

### 14.3. Transport hazard class(es)

Class: 8  
ADR/RID - Classification code: C1

### 14.4. Packing group

Packing group: III



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#### 14.5. Environmental hazards

ADR/RID - Environmentally hazardous: No  
IMDG - Marine pollutant: No  
IATA/ICAO - Environmentally hazardous: No

#### 14.6. Special precautions for user

ADR/RID - Tunnelcode: (E)  
IMDG - Ems: F-A, S-B  
IATA/ICAO - PAX: 852  
IATA/ICAO - CAO: 856

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

Not applicable.

### SECTION 15: Regulatory information

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

The Safety Data Sheet is compiled according to the current European requirements.  
Regulation (EC) No 1907/2006 (REACH)  
Regulation (EC) No 1272/2008 (CLP)

#### 15.2. Chemical safety assessment

No information available

### SECTION 16: Other information

\*Explanation hazard statements: H226 : Flammable liquid and vapour.  
H290 : May be corrosive to metals.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H336 : May cause drowsiness or dizziness.  
H412 : Harmful to aquatic life with long lasting effects.

REVISIONS IN CHAPTRE : 8.2. Exposure controls  
acronyms and synonyms: TWA = time weight average  
STEL = short time exposure limit  
VOC = volatile organic compounds  
PBT = persistant bioaccumulative toxic  
vPvB = very persitant very bioaccumulative



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This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties.

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