

Safety Data Sheet

according to Regulation (EC) No 1907/2006

CONVOCare K, concentrate to be diluted 1:29 with water

Print date: 24.01.2013

Product code: 3007028

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Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
231-633-2	phosphoric acid 75 %, orthophosphoric acid ... %	< 15 %
7664-38-2	C - Corrosive R34	
015-011-00-6	Skin Corr. 1B; H314	
216-700-6	Lauramine oxide	< 5 %
1643-20-5	Xi - Irritant R38-41	
	Skin Irrit. 2, Eye Dam. 1; H315 H318	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

If victim is at risk of losing consciousness, position and transport on their side. Seek medical advice.
Change contaminated clothing.

After inhalation

In case of inhaling spray mists, consult a doctor immediately and show him box or label. Provide fresh air.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist. Protect the eye that is not injured.

After ingestion

Rinse mouth immediately and drink large quantities of water. Medical treatment necessary. Caution if victim vomits: Risk of aspiration!

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

Caution if victim vomits: Risk of aspiration! Irritating to eyes and skin.

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

Treatment: First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray/stream to protect personnel and to cool endangered containers. Extinguishing materials should be selected according to the surrounding area. Water. Foam. Dry extinguishing powder. Extinguishing powder. ABC powder. Carbon dioxide (CO₂). Water fog.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Nitrogen oxides (NO_x). Phosphorus oxides.

5.3. Advice for firefighters

The product itself is not combustible. In case of fire: Use acid-proof equipment only. Wear a self-contained breathing apparatus and chemical resistant suit.

Additional information

Contaminated fire-fighting water must be collected separately. In case of fire and/or explosion do not

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breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Do not empty into drains or the aquatic environment. In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed. Retain contaminated washing water and dispose.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal. Suitable material for diluting or neutralizing: Water. Clear contaminated area thoroughly.

6.4. Reference to other sections

See protective measures under point 7 and 8. + 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Conditions to avoid: Formation of aerosol. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs.

Advice on protection against fire and explosion

The product itself is not combustible.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Suitable material for Container: Polyethylene. Unsuitable materials for Container: metal. Light metal.

Advice on storage compatibility

Materials to avoid: Base. Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Do not store at temperatures under: 5°C. Keep only in the original container in a cool, well-ventilated place.

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

8.2. Exposure controls

Occupational exposure controls

Refer to chapter 7. No further action is necessary.

Protective and hygiene measures

Avoid contact with skin, eye and clothing.

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Hand protection

Recommended protective gloves brand: It is recommended to wear special 0.11mm-layer gloves produced out of nitrile by KCL company (Dermatril, item nr. 740).

Butyl rubber. Thickness of glove material: 0,5 mm penetration time (maximum wearing period): > 480 min

Eye protection

Tightly sealed safety glasses.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	green
Odour:	characteristic

Test method

pH-Value (at 20 °C):	1
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Changes in the physical state

Boiling point:	100 °C
Flash point:	> 150 °C

Explosive properties

Remark: not explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined
Vapour pressure: (at 20 °C)	23 hPa
Vapour pressure: (at 50 °C)	123 hPa
Density (at 20 °C):	1,055 g/cm ³
Water solubility: (at 20 °C)	miscible
Viscosity / dynamic:	not determined
Vapour density:	not determined
Evaporation rate:	not determined

9.2. Other information

Solid content:	not determined
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Corrosion rate on steel or aluminum surfaces is ≥ 55 mm per year at a test temperature of 6,25 °C

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reacts with : Alkalis (alkalis).

10.2. Chemical stability

irrelevant

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10.3. Possibility of hazardous reactions

Exothermic reactions with: Alkalis (alkalis).

10.4. Conditions to avoid

Protect from direct sunlight. Decomposition takes place from temperatures above: > 75 °C

10.5. Incompatible materials

Reacts with : Alkalis (alkalis). Aluminium. Slowly corrodes aluminium and zink under hydrogen evolution.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO₂). Phosphorus oxides. Gas/vapours, irritant.

Further information

Corrosive to metals. Slowly corrodes aluminium and zink under hydrogen evolution.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
7664-38-2	phosphoric acid 75 %, orthophosphoric acid ... %				
	oral	LD50	1530 mg/kg	Rat.	
	dermal	LD50	2740 mg/kg	Rabbit.	
1643-20-5	Lauramine oxide				
	oral	LD50	2000 mg/kg	Ratte	

Specific effects in experiment on an animal

No data available

Irritation and corrosivity

Irritating to eyes and skin.

Sensitising effects

Sensitization: no danger of sensitization.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on existing data the substance does not fulfill the criteria of CMR-substances Cat. 1 and 2 according 67/548/EEC.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
7664-38-2	phosphoric acid 75 %, orthophosphoric acid ... %					
	Acute fish toxicity	LC50	138 mg/l	96	Gambusia affinis	

12.2. Persistence and degradability

Product is acid. The product needs to apply neutralizing agents before draining to wastewater treatment plants. The methods for determining the biological degradability are not applicable to inorganic substances. The surfactants contained in the product are biodegradable according to the requirements of the Detergent Directive 648/2004/EC.

12.3. Bioaccumulative potential

No indication of bio-accumulation potential.

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12.4. Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

none/none

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Small amounts can also be diluted with plenty of water and rinsed away.

Waste disposal number of waste from residues/unused products

060104 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of acids; phosphoric and phosphorous acid
Classified as hazardous waste.

Waste disposal number of used product

060104 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of acids; phosphoric and phosphorous acid
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Water. Contaminated packaging must be completely emptied and can be re-used following appropriate cleaning.

Cleaned containers may be recycled.

SECTION 14: Transport information**Land transport (ADR/RID)**

<u>14.1. UN number:</u>	UN1805 *
<u>14.2. UN proper shipping name:</u>	PHOSPHORIC ACID SOLUTION
<u>14.3. Transport hazard class(es):</u>	8
<u>14.4. Packing group:</u>	III
Hazard label:	8



Classification code:	C1
Limited quantity:	5 L
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Other applicable information (land transport)

E1

Inland waterways transport (ADN)

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14.1. UN number: UN1805 *

14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8



Classification code: C1

Limited quantity: 5 L

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number: UN1805 *

14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8



Special Provisions: 223

Limited quantity: 5 L

EmS: F-A, S-B

Other applicable information (marine transport)

E1

Air transport (ICAO)

14.1. UN number: UN1805 *

14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8



Special Provisions: A3 A803

Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger: 852

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 856

IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

E1

: Y841

14.5. Environmental hazards

Dangerous for the environment: no

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14.6. Special precautions for user

Call a POISON CENTER or doctor/physician if you feel unwell.
May be corrosive to metals.

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

irrelevant

Other applicable informationCorrosion rate on steel or aluminum surfaces is ≥ 55 mm per year at a test temperature of 6,25 °C**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

The classification was carried out for tested properties according to the substance directive (67/548/EWG), annex VI, otherwise according to the calculation procedure described in the preparation directive (1999/45/EG).

The surfactants contained in the product are biodegradable according to the requirements of the Detergent Directive 648/2004/EC. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

National regulatory information

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

* Data changed from previous versions

Full text of R phrases referred to under Sections 2 and 3

34 Causes burns.
36/38 Irritating to eyes and skin.
38 Irritating to skin.
41 Risk of serious damage to eyes.

Full text of H statements referred to under Sections 2 and 3

H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Further Information

The product should only be handled by persons over the age of 18, who were informed sufficiently about the dangerous nature of the product and about the necessary safety precautions.

The classification was carried out for tested properties according to the substance directive (67/548/EWG), annex VI, otherwise according to the calculation procedure described in the preparation directive (1999/45/EG).

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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