

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

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

Revision date: 07.12.2017

Product code: 3007028

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

#### 1.1. Product identifier

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

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

##### Use of the substance/mixture

Restricted to professional users.

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

Company name:	Convotherm Elektrogeräte GmbH	
Street:	Talstr. 35	
Place:	D-82436 Eglfing	
Telephone:	+49 8847 67 0	Telefax: +49 8847 414
Contact person:	Kundendienst - after sales	

#### 1.4. Emergency telephone number:

+49 89 19240 Giftnotruf Rechts der Isar 24h Mo-So

### SECTION 2: Hazards identification

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

##### Regulation (EC) No. 1272/2008

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

May be corrosive to metals.

Causes serious eye damage.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

Phosphoric acid ... %; orthophosphoric acid

Phosphoric acid, mixed esters with Bu alc. and ethylene glycol

Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides

Signal word: Danger

Pictograms:



##### Hazard statements

H290 May be corrosive to metals.

H318 Causes serious eye damage.

##### Precautionary statements

P234 Keep only in original packaging.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 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/doctor.

P390 Absorb spillage to prevent material damage.

P406 Store in a corrosion-resistant container with a resistant inner liner.

##### Additional advice on labelling

The mixture has a low buffer capacity (Acid/Alkaline reserve). (Young et. al)

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### 2.3. Other hazards

Special danger of slipping by leaking/spilling product.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
7664-38-2	Phosphoric acid			< 15 %
	231-633-2	015-011-00-6	01-2119485924-24	
	Met. Corr. 1, Skin Corr. 1B; H290 H314			
68439-51-0	Alcohols, C12-14 (even numbered), ethoxylated propoxylated (> 2.5 moles EO/PO)			< 5 %
	931-986-9		-	
	Aquatic Chronic 3; H412			
	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides			1 - < 5 %
	931-292-6		01-2119490061-47	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 2; H302 H315 H318 H400 H411			

Full text of H and EUH statements: see section 16.

#### Labelling for contents according to Regulation (EC) No 648/2004

< 5 % non-ionic surfactants, < 5 % anionic surfactants, < 5 % amphoteric surfactants.

## 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. Take off contaminated clothing.

#### After inhalation

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

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

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

Observe risk of aspiration if vomiting occurs. Causes serious eye damage.

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. The product itself does not burn.

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

In case of fire may be liberated: Phosphorus oxides, Nitrogen oxides (NO<sub>x</sub>), Gases/vapours, toxic.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit. In case of fire: Use acid-proof equipment only.

### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Retain contaminated washing water and dispose it.

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

Suitable material for diluting or neutralizing: Water.

Provide adequate ventilation. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid: generation/formation of aerosols. Use only in well-ventilated areas.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

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

#### Requirements for storage rooms and vessels

Suitable container/equipment material: Polyethylene;

Unsuitable container/equipment material: Metal, Light metal.

#### Advice on storage compatibility

Keep only in the original container in a cool, well-ventilated place away from alkalis. 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

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### Exposure limits (EH40)

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

### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
7664-38-2	Phosphoric acid			
Worker DNEL, long-term		inhalation	local	2,92 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	0,73 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	1 mg/m <sup>3</sup>

### 8.2. Exposure controls

#### Appropriate engineering controls

See section 7. No additional measures necessary.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink. Avoid contact with skin, eyes and clothes.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

Tested protective gloves are to be worn: Suitable material: Butyl caoutchouc (butyl rubber) (0,5mm);

penetration time (maximum wearing period): >480 Min.

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

#### Skin protection

Protective apron, acid-resistant.

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at: aerosol or mist generation. Suitable respiratory protective equipment: particulates filter device (DIN EN 143). P 2

#### 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): 0 - 1

#### Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: 100 °C

Flash point: > 150 °C

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**Explosive properties**

not applicable

Lower explosion limits: not applicable

Upper explosion limits: not applicable

Ignition temperature: not determined

Vapour pressure:  
(at 20 °C) 23 hPaVapour pressure:  
(at 50 °C) 123 hPaDensity (at 20 °C): 1,055 g/cm<sup>3</sup>

Bulk density: not applicable

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

Acidic reserve [g NaOH/100 g product]: 4,0

Corrosion rate on steel or aluminum surfaces at a test temperature of 55 °C &gt;= 6,25 mm per year

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

Exothermic reaction with: Alkali (lye).

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Exothermic reaction with: Alkali (lye).

**10.4. Conditions to avoid**

Protect against direct sunlight. Decomposition takes place from temperatures above: &gt; 75 °C

**10.5. Incompatible materials**

Alkali (lye), Oxidising agent, strong, Light metals, Amines, Ammonia.

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Phosphorus oxides, Nitrogen oxides (NOx), Gases/vapours, toxic.

**Further information**

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

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No data available

**Acute toxicity**

Based on available data, the classification criteria are not met.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7664-38-2	Phosphoric acid				
	oral	LD50 mg/kg	2600	Rat	
	dermal	LD50 mg/kg	2740	Rabbit	
68439-51-0	Alcohols, C12-14 (even numbered), ethoxylated propoxylated (> 2.5 moles EO/PO)				
	oral	LD50 mg/kg	> 2000	Rat	
	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides				
	oral	LD50 mg/kg	> 2000	Rat	
	dermal	LD50 mg/kg	> 2000	Rat	

#### Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects 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.

#### Specific effects in experiment on an animal

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised. After neutralisation no further toxicity can be observed.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
7664-38-2	Phosphoric acid					
	Acute fish toxicity	LC50	138 mg/l	96 h	Gambusia affinis	
	Acute crustacea toxicity	EC50	>100 mg/l	48 h	Daphnia magna (Big water flea)	
68439-51-0	Alcohols, C12-14 (even numbered), ethoxylated propoxylated (> 2.5 moles EO/PO)					
	Acute fish toxicity	LC50	> 1 - 10 mg/l	96 h	Poecilia reticulata (Guppy)	OECD 203
	Acute algae toxicity	ErC50	> 1 - 10 mg/l	72 h	Desmodesmus subspicatus	OECD 201
	Acute crustacea toxicity	EC50	> 1 - 10 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
	Acute bacteria toxicity	(> 10000 mg/l)			Pseudomonas putida	
	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides					
	Acute fish toxicity	LC50	1,26 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	0,19 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	2,9 mg/l	48 h	Daphnia magna (Big water flea)	

**12.2. Persistence and degradability**

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
68439-51-0	Alcohols, C12-14 (even numbered), ethoxylated propoxylated (> 2.5 moles EO/PO)			
	OECD 301B	> 60 %	28	
	Readily biodegradable (according to OECD criteria).			

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides	< 2,7

**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 substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

No information available.

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

Dispose of waste according to applicable legislation.

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**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; 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; 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 hazardous substances; hazardous waste

**Contaminated packaging**

Water. Contaminated packing 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)**

**14.1. UN number:** UN 1805  
**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  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 80  
Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1805  
**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  
Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 1805  
**14.2. UN proper shipping name:** PHOSPHORIC ACID SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III



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Hazard label: 8  
  
 Marine pollutant: -  
 Special Provisions: 223  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-A, S-B

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1805  
**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  
 Passenger LQ: Y841  
 Excepted quantity: E1  
 IATA-packing instructions - Passenger: 852  
 IATA-max. quantity - Passenger: 5 L  
 IATA-packing instructions - Cargo: 856  
 IATA-max. quantity - Cargo: 60 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### 14.6. Special precautions for user

May be corrosive to metals.

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

not relevant

### Other applicable information

Corrosion rate on steel or aluminum surfaces at a test temperature of 55 °C >= 6,25 mm per year

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3: Phosphoric acid

2010/75/EU (VOC): not relevant

#### Additional information

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

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Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 2 - clearly water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Eye Dam. 1; H318	Calculation method

**Relevant H and EUH statements (number and full text)**

H290 May be corrosive to metals.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H400 Very toxic to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

**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 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.

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