according to UK REACH Regulation

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

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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 I: 0D2S-6U2A-EJ90-KD87

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

Use of the substance/mixture

Antistreaking agent

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

E-mail: info@welbilt.com

Contact person: Kundendienst - after sales

E-mail: info@welbilt.com

1.4. Emergency telephone England and Wales (NHS Direct): 111 Scotland (NHS 24): 111

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Met. Corr. 1; H290 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Phosphoric 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.

according to UK REACH Regulation

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Additional advice on labelling

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

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				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)				
7664-38-2	Phosphoric acid			5 - < 10 %	
	231-633-2	015-011-00-6	01-2119485924-24		
	Met. Corr. 1, Acute Tox. 4, Skin Co	rr. 1B; H290 H302 H314			
68439-51-0	Alcohols, C12-14 (even numbered), ethoxylated propoxylated (> 2.5 moles EO/PO)				
	614-484-1				
	Aquatic Chronic 3; H412				
84962-20-9	Phosphoric acid, mixed esters with		1 - < 5 %		
	284-716-0		01-2119969464-25		
	Met. Corr. 1, Eye Dam. 1; H290 H318				
	Amines, C12-14 (even numbered)		< 2 %		
	931-292-6		01-2119490061-47		
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2; H302 H315 H318 H400 H411				

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

Specific Conc. Limits, M-factors and ATE

Specific Con	C. Limits, Wi-ia	CLOIS AND ATE	
CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
7664-38-2	231-633-2	Phosphoric acid	5 - < 10 %
	l l	= 2740 mg/kg; oral: LD50 = 1250 mg/kg	
68439-51-0	614-484-1	Alcohols, C12-14 (even numbered), ethoxylated propoxylated (> 2.5 moles EO/PO)	1 - < 5 %
	oral: LD50 = >	2000 mg/kg	
84962-20-9	284-716-0	Phosphoric acid, mixed esters with Bu alc. and ethylene glycol	1 - < 5 %
	oral: LD50 = 3	3575 mg/kg	
	931-292-6	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides	< 2 %
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=1	

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

5 % - < 15 % non-ionic surfactants, < 5 % anionic 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.

according to UK REACH Regulation

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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 drunken 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

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 (NOx), 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

General advice

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

For containment

Suitable material for diluting or neutralizing: Water.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information

Provide adequate ventilation.

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

according to UK REACH Regulation

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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.

Advice on general occupational hygiene

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

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.

Hints on joint storage

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

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

according to UK REACH Regulation

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
7664-38-2	Phosphoric acid			
Worker DNEL,	long-term	inhalation	local	2,92 mg/m³
Consumer DNE	EL, long-term	inhalation	local	0,73 mg/m³
Worker DNEL,	long-term	inhalation	systemic	1 mg/m³
84962-20-9	Phosphoric acid, mixed esters with Bu alc. and ethylene gly	ycol		
Worker DNEL,	acute	dermal	systemic	178,8 mg/kg bw/day
Worker DNEL,	long-term	dermal	systemic	1,67 mg/kg bw/day
Worker DNEL,	acute	inhalation	systemic	1260,7 mg/m³
Worker DNEL,	long-term	inhalation	systemic	11,8 mg/m³
Consumer DNEL, acute		oral	systemic	89,4 mg/kg bw/day
Consumer DNE	EL, long-term	oral	systemic	0,83 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	89,4 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	0,83 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	310,9 mg/m³
Consumer DNE	EL, long-term	inhalation	systemic	2,9 mg/m³

PNEC values

CAS No	Substance			
Environmenta	al compartment	Value		
84962-20-9 Phosphoric acid, mixed esters with Bu alc. and ethylene glycol				
Freshwater		0,100 mg/l		
Marine water		0,010 mg/l		
Freshwater se	ediment	0,392 mg/kg		
Marine sedim	ent	0,0392 mg/kg		
Secondary po	pisoning	6,67 mg/kg		
Micro-organis	ms in sewage treatment plants (STP)	100 mg/l		
Soil		0,0197 mg/kg		

8.2. Exposure controls

Appropriate engineering controls

See section 7. No additional measures necessary.

Individual protection measures, such as personal protective equipment

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).

according to UK REACH Regulation

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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

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

100 °C

boiling range:

Flammability: not applicable Lower explosion limits: not applicable Upper explosion limits: not applicable Flash point: > 150 °C Auto-ignition temperature: not determined not determined Decomposition temperature: pH-Value (at 20 °C): 0 - 1 Water solubility: miscible

(at 20 °C)

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined Vapour pressure: 23 hPa

(at 20 °C)

Vapour pressure: 123 hPa

(at 50 °C)

Density (at 20 °C): 1,055 g/cm³
Bulk density: not applicable
Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties not applicable Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate: not determined Solid content: not determined Viscosity / dynamic: not determined

Further Information

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

according to UK REACH Regulation

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Corrosion rate on steel or aluminum surfaces at a test temperature of 55 °C >= 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 from direct sunlight.

10.5. Incompatible materials

Alkali (Iye), 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 hazard classes as defined in GB CLP Regulation

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
7664-38-2	Phosphoric acid					
	oral	LD50 mg/kg	1250	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		
84962-20-9	Phosphoric acid, mixed e	sters with Bu	alc. and eth	nylene glycol		
	oral	LD50 mg/kg	3575	Rat		
	Amines, C12-14 (even nu	mbered) -alk	yldimethyl,	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.

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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.

11.2. Information on other hazards

Endocrine disrupting properties

not applicable

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.

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 mg/l	>100		Daphnia magna (Big water flea)		
68439-51-0	Alcohols, C12-14 (even n	umbered), et	thoxylated pr	opoxylat	ted (> 2.5 moles EO/PO)		
	Acute fish toxicity	LC50 mg/l	> 1 - 10	96 h	Poecilia reticulata (Guppy)		OECD 203
	Acute algae toxicity	ErC50 mg/l	>1 - 10		Desmodesmus subspicatus		OECD 201
	Acute crustacea toxicity	EC50 mg/l	> 1 - 10		Daphnia magna (Big water flea)		OECD 202
	Acute bacteria toxicity	(EC50 mg/l)	> 10000		Pseudomonas putida		
84962-20-9	Phosphoric acid, mixed esters with Bu alc. and ethylene glycol						
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Danio rerio (zebrafish)		
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	3 h	Activated sludge		
	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides						
	Acute fish toxicity	LC50 mg/l	1,26	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 mg/l	0,19	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50	2,9 mg/l	48 h	Daphnia magna (Big water flea)		

12.2. Persistence and degradability

according to UK REACH Regulation

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

(20)1	0.040/2004 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).					
84962-20-9	Phosphoric acid, mixed esters with Bu alc. and ethylene glyco	ol				
	OECD 301B	90 %	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
84962-20-9	Phosphoric acid, mixed esters with Bu alc. and ethylene glycol	< -0,8
	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 UK REACH.

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria. not applicable

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

List of Wastes Code - 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

List of Wastes Code - 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

List of Wastes Code - 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.

according to UK REACH Regulation

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SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1805

14.2. UN proper shipping name: PHOSPHORIC ACID, SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1805

14.2. UN proper shipping name: PHOSPHORIC ACID, SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Classification code: C1
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1805

14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION **14.3. Transport hazard class(es):** 8

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard 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 or ID number: UN 1805

14.2. UN proper shipping name: PHOSPHORIC ACID, SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8

according to UK REACH Regulation

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Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3 A803

1 L

Y841

Excepted quantity:

E1

IATA-packing instructions - Passenger:852IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:856IATA-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. Maritime transport in bulk according to IMO instruments

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

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

Employment restrictions: Observe restrictions to employment for juveniles 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 hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information

Abbreviations and acronyms

Met. Corr: Corrosive to metals Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage

Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

according to UK REACH Regulation

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Classification for mixtures and used evaluation method according to GB CLP Regulation

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 or 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.)