

Safety Data Sheet

according to Regulation (EC) No 1907/2006

CONVOCare S

Revision date: 30.11.2017

Product code: 3050882

Page 2 of 10

P310 Immediately call a POISON CENTER/doctor.

P390 Absorb spillage to prevent material damage.

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			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
7664-38-2	Phosphoric acid			10 - < 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 - < 10 %
	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 % - < 15 % non-ionic surfactants, < 5 % amphoteric surfactants, < 5 % anionic surfactants.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

If unconscious place in recovery position and seek medical advice. Immediately remove any contaminated clothing, shoes or stockings.

After inhalation

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

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, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Protect uninjured eye.

After ingestion

Rinse mouth immediately and drink plenty of water. Medical treatment necessary. Observe risk of aspiration if vomiting occurs.

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

Causes serious eye damage. Causes skin irritation.

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

First Aid, decontamination, treatment of symptoms.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

CONVOCare S

Revision date: 30.11.2017

Product code: 3050882

Page 3 of 10

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water, Foam, Dry extinguishing powder, Extinguishing powder, ABC-powder, Carbon dioxide (CO₂), Water mist. Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

In case of fire: Use acid-proof equipment only. Use appropriate respiratory protection.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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 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.

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).

Suitable material for diluting or neutralizing: Water.

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

Advice on protection against fire and explosion

The product itself does not burn.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Suitable material for Container: Polyethylene (PE)

Unsuitable materials for Container: Metal, Light metal.

Advice on storage compatibility

Materials to avoid: Alkali (lye).

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Keep in a cool, well-ventilated place.

Do not store at temperatures under: 5 °C

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

Safety Data Sheet

according to Regulation (EC) No 1907/2006

CONVOCare S

Revision date: 30.11.2017

Product code: 3050882

Page 4 of 10

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

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 ³
Consumer DNEL, long-term		inhalation	local	0,73 mg/m ³
Worker DNEL, long-term		inhalation	systemic	1 mg/m ³

8.2. Exposure controls

Appropriate engineering controls

See section 7. No additional measures necessary.

Protective and hygiene measures

Avoid contact with skin, eyes and clothes.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Suitable material: Butyl caoutchouc (butyl rubber)
 Thickness of the glove material: 0,5 mm
 Breakthrough time (maximum wearing time): > 480 min.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation
 Suitable respiratory protective equipment: Particle filter device (DIN EN 143); P1 / P2

Environmental exposure controls

No special environmental protection measures are necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: green
 Odour: characteristic

pH-Value (at 20 °C): 0,6

Changes in the physical state

Melting point: not determined
 Initial boiling point and boiling range: 100 °C
 Flash point: not applicable

Explosive properties

not applicable

Test method

Safety Data Sheet

according to Regulation (EC) No 1907/2006

CONVOCare S

Revision date: 30.11.2017

Product code: 3050882

Page 5 of 10

Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	not determined
Vapour pressure: (at 20 °C)	23 hPa
Vapour pressure: (at 50 °C)	123 hPa
Density (at 20 °C):	1,080 g/cm ³
Water solubility: (at 20 °C)	miscible
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time:	not determined
Vapour density:	not determined
Evaporation rate:	not determined

9.2. Other information

Solid content:	not determined
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Acidic reserve [g NaOH/100 g product]: 4

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**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reactions with: Alkali (lye).

10.4. Conditions to avoid

Protect against direct sunlight.

10.5. Incompatible materials

Reacts with : Alkali (lye).

Slowly corrodes aluminium and zink under hydrogen evolution.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

CONVOCare S

Revision date: 30.11.2017

Product code: 3050882

Page 6 of 10

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 skin irritation.

Causes serious eye damage.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

CONVOCare S

Revision date: 30.11.2017

Product code: 3050882

Page 7 of 10

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 methods for determining the biological degradability are not applicable to inorganic substances.

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

none

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

CONVOCare S

Revision date: 30.11.2017

Product code: 3050882

Page 8 of 10

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

Dispose of waste according to applicable legislation. Cleaned containers may be recycled. Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

CONVOCare S

Revision date: 30.11.2017

Product code: 3050882

Page 9 of 10

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

Call a POISON CENTER/doctor/.? if you feel unwell.
 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

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

CONVOCare S

Revision date: 30.11.2017

Product code: 3050882

Page 10 of 10

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
Skin Irrit. 2; H315	Calculation method
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.)