

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**CONVOClean forte, cleaner**

Print date: 24.01.2013

Product code: 3007017

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

CONVOClean forte, cleaner

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

For professional users only.

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

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

**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**

Indications of danger: Corrosive

R phrases:  
Causes burns.**2.2. Label elements**

Danger symbols: C - Corrosive



C - Corrosive

**Hazardous components which must be listed on the label**  
caustic potash, potassium hydroxide

**R phrases**

34 Causes burns.

**S phrases**

02 Keep out of the reach of children.  
 23 Do not breathe Dampf/Aerosol.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
 37/39 Wear suitable gloves and eye/face protection.

**2.3. Other hazards**

The preparation is dangerous in the sense of Directive 1999/45/EC.  
 This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
215-181-3	caustic potash, potassium hydroxide	< 5 %
1310-58-3	C - Corrosive, Xn - Harmful R22-35	
019-002-00-8	Acute Tox. 4, Skin Corr. 1A; H302 H314	
203-961-6	2-(2-butoxyethoxy)ethanol	< 5 %
112-34-5	Xi - Irritant R36	
603-096-00-8	Eye Irrit. 2; H319	

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

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Take off immediately all contaminated clothing. First aid assistant: Pay attention to self-protection!  
Provide fresh air.

**After inhalation**

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

**After contact with skin**

After contact with skin, wash immediately with: Water. Subsequently wash again with: Polyethylene glykol 400. Do not wash off with soap or other alkaline detergents. 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 the eye that is not injured.

**After ingestion**

Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect). Do not induce vomiting. Stomach perforation. Immediately get medical attention.

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

Causes burns. By swallowing danger of perforation of the esophagus and the stomach exists (strong corrosive effects). Skin corrosion/irritation: Skin Corr. 1B Serious eye damage/eye irritation: Eye Dam.

1

Caution if victim vomits: Risk of aspiration!

**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. ABC powder. Carbon dioxide (CO<sub>2</sub>). Atomized water.

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

Can be released in case of fire: Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>). Carbon dioxide (CO<sub>2</sub>).

**5.3. Advice for firefighters**

The product itself is not combustible. In case of fire: Wear self-contained breathing apparatus.

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### Additional information

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

## SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes. Provide adequate ventilation. Wear personal protection equipment. High slip hazard because of leaking or spilled product.

### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment. Do not allow to enter into soil/subsoil.

### 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. Clear contaminated area thoroughly. Dilute with a large quantity of water. The contaminated area should be cleaned up immediately with: Water.

### 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

In case of open handling, use devices with built-in suction where possible. If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured. Conditions to avoid: Formation of aerosol. All working processes must always be organized so that the risk of the following can be kept as low as possible: inhalation. skin contact.

#### 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 floor covering: Leachate-proof.  
Handle and open container with care. Keep container tightly closed.  
Suitable material for Container: polyethylene. Unsuitable materials for Container: metal.

#### Advice on storage compatibility

Do not store together with: Acid. 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
112-34-5	2-(2-Butoxyethoxy)ethanol	15	101.2		TWA (8 h)	WEL
		10	67.5		STEL (15 min)	WEL
1310-58-3	Potassium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

### 8.2. Exposure controls

#### Occupational exposure controls

refer to chapter 7. Additional information about structure of technical plants: Work in well ventilated zones or use proper respiratory protection. Do not breathe gas/fumes/vapour/spray.

#### Protective and hygiene measures

Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of work. When using do not eat, drink or smoke. Protect skin by using skin protective cream.

#### Respiratory protection

Respiratory protection required in case of: insufficient ventilation. aerosol or mist generation.  
Suitable respiratory protective equipment: particulates filter device (DIN EN 143). P 2

#### Hand protection

Tested protective gloves are to be worn: Suitable material: Butyl rubber. (0,5mm), NBR (Nitrile rubber). (0,35mm), penetration time (maximum wearing period): >480 Min.  
Recommended protective gloves brand: Camatril Velour, Manufacturer: KCL or comparable makes from other companies.

#### Eye protection

Tightly sealed safety glasses.

#### Skin protection

Suitable protection of the body: Protective apron.

#### 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: brown  
Odour: characteristic

#### Test method

pH-Value (at 20 °C): 14

#### Changes in the physical state

Boiling point: 98 °C  
Flash point: not applicable

#### Explosive properties

not applicable

Lower explosion limits: not applicable  
Upper explosion limits: not applicable  
Ignition temperature: not applicable

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Vapour pressure:  
(at 20 °C) 23 hPa

Vapour pressure:  
(at 50 °C) 123 hPa

Density (at 20 °C): 1,10 g/cm<sup>3</sup>

Water solubility:  
(at 20 °C) miscible

**Solubility in other solvents**

Ethanol. Acetone

Viscosity / dynamic: not determined

Vapour density: not determined

Evaporation rate: not determined

**9.2. Other information**

Solid content: not determined

Corrosion rate on steel or aluminum surfaces is  $\geq$  55mm per year at a test temperature of 6,25 °C**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reacts with : acid. Carbon dioxide.

**10.2. Chemical stability**

irrelevant

**10.3. Possibility of hazardous reactions**

Exothermic reactions with: acid.

Violent reaction with: Acid.

Possibly extensive generation of hydrogen on contact with amphoteric metals (e.g. aluminium, lead, zinc) (explosive hazard!).

**10.4. Conditions to avoid**

Protect from direct sunlight.

**10.5. Incompatible materials**

Light metals. acid. Oxidizing agents, strong. peroxides. Zinc. copper. Copper containing metals.

**10.6. Hazardous decomposition products**

Carbon dioxide.

**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
1310-58-3	caustic potash, potassium hydroxide				
	oral	LD50	273 mg/kg	Rat	RTECS

**Specific effects in experiment on an animal**

No data available

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**Irritation and corrosivity**

Causes severe skin burns and eye damage. By swallowing danger of perforation of the esophagus and the stomach exists (strong corrosive effects).

**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
1310-58-3	caustic potash, potassium hydroxide					
	Acute fish toxicity	LC50	80 mg/l	96	Gambusia affinis	IUCLID

**12.2. Persistence and degradability**

due to the alkaline character of the product, usually, it has to be neutralized before contaminated effluents are introduced into the waste water treatment system.

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.

**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**

irrelevant

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

Waste disposal according to official state regulations.

**Waste disposal number of waste from residues/unused products**

060204 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of bases; sodium and potassium hydroxide  
Classified as hazardous waste.

**Waste disposal number of used product**

060204 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of bases; sodium and potassium hydroxide  
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.

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### 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)

<b>14.1. UN number:</b>	UN1814
<b>14.2. UN proper shipping name:</b>	POTASSIUM HYDROXIDE SOLUTION
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	II
Hazard label:	8



Classification code:	C5
Limited quantity:	1 L
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E

### Other applicable information (land transport)

E2

Transport category: 2

### Inland waterways transport (ADN)

<b>14.1. UN number:</b>	UN1814
<b>14.2. UN proper shipping name:</b>	POTASSIUM HYDROXIDE SOLUTION
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	II
Hazard label:	8



Classification code:	C5
Limited quantity:	1 L

### Other applicable information (inland waterways transport)

E2

### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN1814
<b>14.2. UN proper shipping name:</b>	POTASSIUM HYDROXIDE SOLUTION
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	II
Hazard label:	8



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Special Provisions: -  
 Limited quantity: 1 L  
 EmS: F-A, S-B

**Other applicable information (marine transport)**

Special provisions: -  
 E2

**Air transport (ICAO)**

**14.1. UN number:** UN1814  
**14.2. UN proper shipping name:** POTASSIUM HYDROXIDE SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Special Provisions: A3 A803  
 Limited quantity Passenger: 0.5 L  
 IATA-packing instructions - Passenger: 851  
 IATA-max. quantity - Passenger: 1 L  
 IATA-packing instructions - Cargo: 855  
 IATA-max. quantity - Cargo: 30 L

**Other applicable information (air transport)**

E2  
 : Y809  
 Special provisions: A3  
 : Y840

**14.5. Environmental hazards**

Dangerous for the environment: no

**14.6. Special precautions for user**

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

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

irrelevant

**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**

Employment restrictions: Observe employment restrictions for young people.  
 Water contaminating class (D): 1 - slightly water contaminating



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**Additional information**

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**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**

22	Harmful if swallowed.
34	Causes burns.
35	Causes severe burns.
36	Irritating to eyes.

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

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.

**Further 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 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.)*