

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**CONVOClean forte, cleaner**

Revision date: 10.11.2020

Product code: 3007017

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**1. Identification****Product identifier**

CONVOClean forte, cleaner

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Cleaning agent

Restricted to professional users.

**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

e-mail: info@welbilt.com

**Emergency phone number:** +49 89 19240 Giftnotruf Rechts der Isar 24h Mo-So**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

**Label elements****29 CFR Part 1910.1200****Signal word:** Danger**Pictograms:****Hazard statements**

May be corrosive to metals

Causes severe skin burns and eye damage

**Precautionary statements**

Keep only in original container.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash hands thoroughly after handling.

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

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

Absorb spillage to prevent material damage.

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

Dispose of contents/container to an appropriate recycling or disposal facility.

**Hazards not otherwise classified**

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

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**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
1310-58-3	caustic potash, potassium hydroxide	4.5 %
112-34-5	2-(2-butoxyethoxy)ethanol	1.5 %

**4. First-aid measures****Description of first aid measures****General information**

Remove contaminated, saturated clothing immediately. First aider: Pay attention to self-protection! Provide fresh air.

**After inhalation**

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. Subsequently wash off with: Polyethylene glykol 400. Do not wash off with soap or other alkaline cleaning agents. 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. Protect uninjured eye.

**After ingestion**

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

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

Causes burns. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). Observe risk of aspiration if vomiting occurs.

**Indication of any immediate medical attention and special treatment needed**

First Aid, decontamination, treatment of symptoms.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.  
Water, Foam, Dry extinguishing powder, ABC-powder, Carbon dioxide (CO<sub>2</sub>), Water spray.

**Specific hazards arising from the chemical**

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), Carbon dioxide (CO<sub>2</sub>), Carbon monoxide.

**Special protective equipment and precautions for fire-fighters**

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

**Additional information**

Use water spray/stream to protect personnel and to cool endangered containers.  
Contaminated fire-fighting water must be collected separately. Do not inhale explosion and combustion gases.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothes. Provide adequate ventilation. Wear personal protection equipment.

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High slip hazard because of leaking or spilled product.

**Environmental precautions**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clear contaminated areas thoroughly. Dilute with plenty of water. The contaminated area should be cleaned up immediately with: Water.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

## 7. Handling and storage

**Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Conditions to avoid: Formation of aerosol. All work processes must always be designed so that the following is as low as possible: Inhalation, Skin contact.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Suitable floor material: alkali-resistant.

Handle and open container with care. Keep container tightly closed.

Suitable material for Container: Polyethylene. Unsuitable materials for Container: Metal.

**Hints on joint storage**

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. Protect against direct sunlight. Keep only in the original container in a cool, well-ventilated place.

## 8. Exposure controls/personal protection

**Control parameters****Exposure controls****Appropriate engineering controls**

See section 7. Additional information on plant design: Work in well-ventilated zones or use proper respiratory protection. Do not breathe gas/fume/vapour/spray.

**Protective and hygiene measures**

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

**Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

Tested protective gloves must be worn.

Suitable material: Butyl caoutchouc (butyl rubber) (Thickness of the glove material: 0,5mm); NBR (Nitrile rubber) (Thickness of the glove material: 0,35mm)

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

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Recommended protective gloves brand: Camatril Velour, Manufacturer: KCL; Or comparable articles from other companies.

**Skin protection**

Suitable protective clothing: Protective apron.

**Respiratory protection**

Respiratory protection necessary at: insufficient ventilation, aerosol or mist formation.

Suitable respiratory protective equipment: Particle filter device (DIN EN 143) P 2

**Environmental exposure controls**

No information available.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	liquid
Color:	red
Odor:	characteristic

pH-Value (at 20 °C):	14
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**Changes in the physical state**

Melting point/freezing point:	not determined
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Initial boiling point and boiling range:	98 °C
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Flash point:	not applicable
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**Flammability**

Solid:	not applicable
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Gas:	not applicable
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**Explosive properties**

not applicable

Lower explosion limits:	not applicable
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Upper explosion limits:	not applicable
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Ignition temperature:	not applicable
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**Auto-ignition temperature**

Solid:	not applicable
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Gas:	not applicable
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Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapor pressure: (at 20 °C)	23 hPa
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Vapor pressure: (at 50 °C)	123 hPa
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Density (at 20 °C):	1,10 g/cm <sup>3</sup>
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Bulk density:	not applicable
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Water solubility: (at 20 °C)	miscible
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**Solubility in other solvents**

Ethanol, Acetone

Partition coefficient:	not determined
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Viscosity / dynamic:	not determined
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Vapor density:	not determined
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Evaporation rate: not determined

**Other information**

Solid content: not determined

Corrosion rate on steel or aluminum surfaces at a test temperature of 55 °C &gt;= 6.25 mm per year

**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability: Stable

The product is stable under storage at normal ambient temperatures.

**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!).

**Conditions to avoid**

Protect against direct sunlight.

**Incompatible materials**

Light metals, Acid, Oxidising agent, strong, Peroxides, Zinc, Copper, Copper alloys.

**Hazardous decomposition products**

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon dioxide (CO2), Carbon monoxide.

**Further information**

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

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

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

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
1310-58-3	caustic potash, potassium hydroxide				
	oral	LD50 mg/kg	365	Rat	
112-34-5	2-(2-butoxyethoxy)ethanol				
	oral	LD50 mg/kg	5660	Rat	
	dermal	LD50 mg/kg	2764	Rabbit	

**Irritation and corrosivity**

Causes severe skin burns and eye damage

**Sensitizing 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.

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**Specific target organ toxicity (STOT) - single exposure**

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

**Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Aspiration hazard**

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

**12. Ecological information****Ecotoxicity**

There are no data available on the mixture itself.

**Persistence and degradability**

The product is an alkali. Before discharge into sewage plants the product normally needs to be neutralised.

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

**Bioaccumulative potential**

No indication of bioaccumulation potential.

**Mobility in soil**

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

**Other adverse effects**

not relevant

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**Contaminated packaging**

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

Cleaned containers may be recycled.

**14. Transport information****US DOT 49 CFR 172.101****UN/ID number:**

UN 1814

**Proper shipping name:**

Potassium hydroxide solution

**Transport hazard class(es):**

8

**Packing group:**

II

Hazard label:

8

**Marine transport (IMDG)****UN number:**

UN 1814

**UN proper shipping name:**

POTASSIUM HYDROXIDE SOLUTION

**Transport hazard class(es):**

8

**Packing group:**

II

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Hazard label: 8



Marine pollutant: -  
 Special Provisions: -  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 EmS: F-A, S-B

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

**UN number:** UN 1814  
**UN proper shipping name:** POTASSIUM HYDROXIDE SOLUTION  
**Transport hazard class(es):** 8  
**Packing group:** II  
 Hazard label: 8



Special Provisions: A3 A803  
 Limited quantity Passenger: 0.5 L  
 Passenger LQ: Y840  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 851  
 IATA-max. quantity - Passenger: 1 L  
 IATA-packing instructions - Cargo: 855  
 IATA-max. quantity - Cargo: 30 L

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**Special precautions for user**

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

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not relevant

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 304 CERCLA:  
 Potassium hydroxide (1310-58-3): Reportable quantity = 1,000 (454) lbs. (kg)  
 SARA Section 311/312 Hazards:  
 Potassium hydroxide (1310-58-3): Immediate (acute) health hazard  
 2-(2-butoxyethoxy)ethanol (112-34-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information**

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**Other data**

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.

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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.)*