

Safety Data Sheet

according to UK REACH Regulation

CONVOClean forte, cleaner

Revision date: 03.08.2023

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

UFI: 292S-PUCX-3J9H-W1P5

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

Cleaning 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

Skin Corr. 1; H314

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

caustic potash, potassium hydroxide

Signal word: Danger**Pictograms:****Hazard statements**

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

Precautionary statements

P260

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

P280

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

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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.

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2.3. Other hazards

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

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

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1310-58-3	caustic potash, potassium hydroxide			1 - < 5 %
	215-181-3	019-002-00-8	01-2119487136-33	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A; H290 H302 H314			
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			1 - < 5 %
	203-961-6	603-096-00-8		
	Eye Irrit. 2; H319			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
1310-58-3	215-181-3	caustic potash, potassium hydroxide	1 - < 5 %
	oral: LD50 = 365 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2		
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	1 - < 5 %
	dermal: LD50 = 2764 mg/kg; oral: LD50 = 5660 mg/kg		

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

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

SECTION 4: First aid measures**4.1. 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.

4.2. 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.

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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.

Water, Foam, Dry extinguishing powder, ABC-powder, Carbon dioxide (CO₂), Water spray.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

Additional information

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

Contaminated fire-fighting water must be collected separately. Do not inhale explosion and combustion gases.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

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

High slip hazard because of leaking or spilled product.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment

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

For cleaning up

Clear contaminated areas thoroughly. Dilute with plenty of water. The contaminated area should be cleaned up immediately with: 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

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.

Advice on general occupational hygiene

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.

7.2. Conditions for safe storage, including any incompatibilities

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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 from direct sunlight. 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/m ³	fibres/ml	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	WEL
		15	101.2		STEL (15 min)	WEL
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1310-58-3	caustic potash, potassium hydroxide			
	Worker DNEL, long-term	inhalation	local	1 mg/m ³
	Consumer DNEL, long-term	inhalation	local	1 mg/m ³
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			
	Consumer DNEL, long-term	oral	systemic	5 mg/kg bw/day
	Consumer DNEL, long-term	dermal	systemic	50 mg/kg bw/day
	Worker DNEL, long-term	dermal	systemic	83 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	local	40,5 mg/m ³
	Worker DNEL, long-term	inhalation	systemic	67,5 mg/m ³

PNEC values

CAS No	Substance	Value
	Environmental compartment	
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	
	Freshwater	1,1 mg/l
	Marine water	0,11 mg/l
	Freshwater sediment	4,4 mg/kg
	Marine sediment	0,44 mg/kg
	Micro-organisms in sewage treatment plants (STP)	200 mg/l
	Soil	0,32 mg/kg

8.2. Exposure controls

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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/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment**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.

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 (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:	red	
Odour:	characteristic	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		98 °C
Flammability:		not applicable
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Flash point:		not applicable
Auto-ignition temperature:		not applicable
Decomposition temperature:		not determined
pH-Value (at 20 °C):		14
Water solubility: (at 20 °C)		miscible
Solubility in other solvents Ethanol, Acetone		
Partition coefficient n-octanol/water:		not determined
Vapour pressure: (at 20 °C)		23 hPa
Vapour pressure: (at 50 °C)		123 hPa
Density (at 20 °C):		1,10 g/cm ³
Bulk density:		not applicable
Relative vapour density:		not determined

9.2. Other information**Information with regard to physical hazard classes**

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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 InformationCorrosion rate on steel or aluminum surfaces at a test temperature of 55 °C \geq 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: 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, Oxidising agent, strong, Peroxides, Zinc, Copper, Copper alloys.

10.6. Hazardous decomposition productsIn case of fire may be liberated: Nitrogen oxides (NO_x), Carbon dioxide (CO₂), Carbon monoxide.**Further information**

Corrosive to metals. Slowly corrodes aluminium and zinc 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

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CAS No	Chemical name				
	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; diethylene glycol monobutyl ether				
	oral	LD50 mg/kg	5660	Rat	
	dermal	LD50 mg/kg	2764	Rabbit	

Irritation and corrosivity

Causes severe skin burns and eye damage. (On basis of test data)
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.

11.2. Information on other hazards**Endocrine disrupting properties**

not applicable

SECTION 12: Ecological information**12.1. Toxicity**

There are no data available on the mixture itself.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1310-58-3	caustic potash, potassium hydroxide					
	Acute fish toxicity	LC50 mg/l	45,4	96 h Oncorhynchus mykiss (Rainbow trout)		
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether					
	Acute fish toxicity	LC50 mg/l	1300	96 h Lepomis macrochirus (Bluegill)		
	Acute algae toxicity	ErC50 mg/l	> 100	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h Daphnia magna (Big water flea)		

12.2. 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.

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			
	OECD 301E	> 90 %		
	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
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	0,9

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

not relevant

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

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

List of Wastes Code - used product

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

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number:	UN 1814
14.2. UN proper shipping name:	POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	II

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Hazard label: 8



Classification code: C5
 Limited quantity: 1 L
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 80
 Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1814
14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Classification code: C5
 Limited quantity: 1 L
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1814
14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 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)

14.1. UN number or ID number: UN 1814
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
 Passenger LQ: Y840
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 851
 IATA-max. quantity - Passenger: 1 L

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IATA-packing instructions - Cargo: 855

IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

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

Warning corrosive. May be corrosive to metals.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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, Entry 55, Entry 75

Additional information

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

1 - slightly hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
caustic potash, potassium hydroxide

SECTION 16: Other information**Abbreviations and acronyms**

Met. Corr: Corrosive to metals

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Eye Dam: Eye damage

Eye Irrit: Eye irritation

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

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1; H314	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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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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.)