



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## CONVOClean forte, cleaner

Print date: 12.03.2015

Product code: 3007017

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P305+P351+P338 water/shower.  
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.

### 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

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
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-, H- and EUH-phrases: see section 16.

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

< 5 % phosphates, < 5 % non-ionic surfactants, < 5 % amphoteric 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: Water. 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, 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 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).

Caution if victim vomits: Risk of aspiration!

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

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First Aid, decontamination, treatment of symptoms.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Use water spray jet to protect personnel and to cool endangered containers. Co-ordinate fire-fighting measures to the fire surroundings.

Water, Foam, Dry extinguishing powder, ABC-powder, Carbon dioxide (CO<sub>2</sub>), Water spray.

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

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

#### 5.3. Advice for firefighters

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

#### **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 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

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

Treat the recovered material as prescribed in the section on waste disposal. 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**

The product itself does not burn.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### **Requirements for storage rooms and vessels**

Suitable floor material: 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.

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### 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.

### 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 <sup>3</sup>	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	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

### 8.2. Exposure controls

#### Appropriate engineering 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. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. When using do not eat, drink or smoke. Protect skin by using skin protective cream.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

Tested protective gloves are to be worn: Suitable material: Butyl caoutchouc (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 articles from other companies.

#### Skin protection

Suitable protective clothing: Protective apron.

#### Respiratory protection

Respiratory protection necessary at: insufficient ventilation. 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: red  
Odour: characteristic

#### Test method

pH-Value (at 20 °C): 14

#### Changes in the physical state

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Melting point:	not determined
Initial boiling point and boiling range:	98 °C
Flash point:	not applicable

**Explosive properties**

not applicable

Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	not applicable
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>
Bulk density:	not applicable
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
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Corrosion rate on steel or aluminum surfaces is  $\geq 55$ mm 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**

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 against direct sunlight.

**10.5. Incompatible materials**

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

**10.6. Hazardous decomposition products**

Carbon dioxide.

**Further information**

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

**SECTION 11: Toxicological information**

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**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No data available

**Acute toxicity**

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

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
1310-58-3	caustic potash, potassium hydroxide				
	oral	LD50	273 mg/kg	Rat	RTECS

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

**Sensitising effects**

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

**STOT-single exposure**

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

**Severe effects after repeated or prolonged exposure**

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.

**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**

There are no data available on the mixture itself.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
1310-58-3	caustic potash, potassium hydroxide					
	Acute fish toxicity	LC50	80 mg/l	96 h	Gambusia affinis	IUCLID

**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 the product are biodegradable according to the requirements of the Detergent Directive 648/2004/EC.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation 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**

not relevant

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

Dispose of waste according to applicable legislation.

##### 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.

##### 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:** 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  
 Transport category: 2  
 Hazard No: 80  
 Tunnel restriction code: E

#### Other applicable information (land transport)

E2  
 Transport category: 2

#### Inland waterways transport (ADN)

**14.1. UN 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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Classification code: C5  
 Limited quantity: 1 L

**Other applicable information (inland waterways transport)**  
 E2

**Marine transport (IMDG)**

**14.1. UN 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  
 EmS: F-A, S-B

**Other applicable information (marine transport)**  
 Special provisions: -  
 E2

**Air transport (ICAO)**

**14.1. UN 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  
 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)**  
 : Y840  
 E2

**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.



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

not relevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****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 employment restrictions for young people.

Water contaminating class (D):

1 - slightly water contaminating

**Additional information**

\*

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Relevant R-phrases (Number and full text)**

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

**Relevant H- and EUH-phrases (Number and full text)**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.

**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.)*