

**GARDOCLEAN S 5180**

Version 1.9

Revision Date 10.03.2011

Print Date 05.04.2011

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name : GARDOCLEAN S 5180

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

Use of the Sub- : Cleaning agent for metal surfaces  
stance/Mixture  
Recommended restrictions : None known.  
on use

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

Company : Chemetall Polska Sp. z o.o.  
ulica Przeclawska 8  
03-879 Warszawa  
Telephone : 0048 (0)22 510 11 51  
Telefax : 0048 (0)22 510 11 31  
  
Contact person product safety  
Telephone : +49 (0)69 7165 3252  
E-mail address : msds.de@chemetall.com

**1.4 Emergency telephone number**

Emergency telephone : 0048(0)225101130 (7.30-15.30)  
number

**2. Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (67/548/EEC, 1999/45/EC)**

Corrosive R34: Causes burns.

**2.2 Label elements**

**Labelling according to EC Directives (1999/45/EC)**

Hazard pictograms :



Corrosive

R-phrase(s) : R34 Causes burns.

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S-phrase(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S60 This material and its container must be disposed of as hazardous waste.

Hazardous components which must be listed on the label:

- 1310-58-3 Potassium Hydroxide

Special labelling of certain mixtures : Ingredients according to Regulation (EC) No.648/2004 on detergents:  
Phosphate, 5 - 15 % P

**2.3 Other hazards**

The information required is contained in this Material Safety Data Sheet.

**3. Composition/information on ingredients**

**3.1 Substances**

Identification: GARDOCLEAN S 5180

**3.2 Mixtures**

Chemical nature : Aqueous solution of alkali salts.

**Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Tetrapotassium pyrophosphate	7320-34-5 230-785-7	Xi; R36	Eye Irrit. 2; H319	>= 25 - < 50
Potassium metaborate	13709-94-9 237-262-2	Xi; R36	Eye Irrit. 2; H319	>= 2.5 - < 10
Potassium Hydroxide	1310-58-3 215-181-3 1-2119487136-33	C; R35 Xn; R22	Acute Tox. 4; H302 Skin Corr. 1A; H314	>= 2.5 - < 5

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- areas and containers : Keep container tightly closed in a dry and well-ventilated place.
- Further information on storage conditions : Avoid contact with amphoteric metals (e.g. aluminium, lead, zinc).
- Advice on common storage : Do not store near acids.

**7.3 Specific end uses**

- Specific use(s) : Cleaning agent for metal surfaces

**8. Exposure controls/personal protection**

**8.1 Control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
Potassium Hydroxide	1310-58-3	STEL	2 mg/m <sup>3</sup>	2005-04-06	GB EH40

**8.2 Exposure controls**

**Engineering measures**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.  
Recommended Filter type:  
B-P2
- Hand protection : butyl-rubber  
Protective gloves complying with EN 374.  
The exact break through time can be obtained from the protective glove producer and this has to be observed.  
Protective gloves have to be replaced at the first sign of deterioration.
- Eye protection : Tightly fitting safety goggles  
Eye protection (EN 166)
- Skin and body protection : Chemical resistant protective clothing according to DIN EN 13034 (Type 6)