

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Gardoclean S 5123

Version: 4.1

Revision Date 09.01.2015

Print Date 09.01.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Gardoclean S 5123

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

Use of the Sub-stance/Mixture : Cleaning agent for metal surfaces

Recommended restrictions on use : None known.

1.3 Details of the supplier of the safety data sheet

Company : Chemetall Ltd
Denbigh Road
Bletchley Milton Keynes MK1 1PB
Telephone : 01908 649333
Telefax : 01908 373939

Contact person product safety
Telephone : +34.938404864
E-mail address : msds.es@chemetall.com

1.4 Emergency telephone number

Emergency telephone number : 01908 649333

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1 H290: May be corrosive to metals.
Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.

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

Corrosive R35: Causes severe burns.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H290
H314

May be corrosive to metals.
Causes severe skin burns and eye damage.

Precautionary statements

: **Prevention:**
P280

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

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do
NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi-
ately all contaminated clothing. Rinse skin
with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh
air and keep comfortable for breathing. Im-
mediately call a POISON CENTER or doc-
tor/ physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-
ter for several minutes. Remove contact
lenses, if present and easy to do. Continue
rinsing.

P390 Absorb spillage to prevent material dam-
age.

Hazardous components which must be listed on the label:

- 1310-73-2 Sodium Hydroxide

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

Hazard pictograms

:



Corrosive

R-phrases(s)

: R35

Causes severe burns.

S-phrases(s)

: S26

In case of contact with eyes, rinse immedi-
ately with plenty of water and seek medical
advice.

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| | |
|-----------|---|
| S24/25 | Avoid contact with skin and eyes. |
| 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:

- 1310-73-2 Sodium Hydroxide

Detergents Regulation EC 907/2006 : Non-ionic surfactants less than 5 %

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous components

| Chemical Name | CAS-No. EC-No. Registration number | Classification (67/548/EEC) | Classification (REGULATION (EC) No 1272/2008) | Concentration [%] |
|------------------|--|--------------------------------|--|----------------------|
| Sodium Hydroxide | 1310-73-2 215-185-5 01-2119457892-27 | C; R35 | Met. Corr. 1; H290 Skin Corr. 1A; H314 | >= 25 - < 50 |

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

For the full text of the Notas mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Take off contaminated clothing and shoes immediately.

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First Aid responders should pay attention to self-protection and use the recommended protective clothing
Move out of dangerous area.

- | | |
|-------------------------|---|
| If inhaled | : Move to fresh air. If symptoms persist, call a physician. |
| In case of skin contact | : Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately. |
| In case of eye contact | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician. |
| If swallowed | : Rinse mouth with water. Immediately give large quantities of water to drink. Do NOT induce vomiting. Call a physician immediately. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|-------|--|
| Risks | : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. |
|-------|--|

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|-----------|--|
| Treatment | : Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service. |
|-----------|--|

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | |
|--------------------------------|---|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : High volume water jet |

5.2 Special hazards arising from the substance or mixture

- | | |
|---------------------------------------|--|
| Specific hazards during fire-fighting | : Hazardous decomposition products formed under fire conditions. |
|---------------------------------------|--|

5.3 Advice for firefighters

- | | |
|---|--|
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus. |
| Further information | : The product itself does not burn. |

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Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Ensure adequate ventilation.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

See chapter 8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Ensure that eye flushing systems and safety showers are located close to the working place.
Avoid contact with skin and eyes.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in a place accessible by authorized persons only.
Store at room temperature in the original container.
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.

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7.3 Specific end use(s)

Specific use(s) : Cleaning agent for metal surfaces

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Components | CAS-No. | Value | Control parameters | Update | Basis |
|------------------|-----------|-------|---------------------|------------|---------|
| Sodium Hydroxide | 1310-73-2 | STEL | 2 mg/m ³ | 2005-04-06 | GB EH40 |

DNEL/DMEL

Sodium Hydroxide : End Use: DNEL, Workers
Exposure routes: Inhalation
Potential health effects: Local effects, Long-term exposure
Value: 1 mg/m³

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.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Tightly fitting safety goggles
Eye protection (EN 166)

Skin and body protection : Chemical resistant protective clothing according to DIN EN

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13034 (Type 6)

Hygiene measures : Take off contaminated clothing and shoes immediately.
Avoid contact with the skin and the eyes.
Keep away from food, drink and animal feedingstuffs.
Wash hands before breaks and immediately after handling the product.

Protective measures : Handle in accordance with good industrial hygiene and safety practice.
Ensure that eye flushing systems and safety showers are located close to the working place.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : viscous liquid
Colour : colourless to amber
Odour : odourless
Flash point : Not applicable
Ignition temperature : not auto-flammable
pH : 13.8
at 100 g/l
20 °C
: 324 °C
: 1,300 °C
Vapour pressure : No data available
Density : 1.477 - 1.517 g/cm³

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Water solubility : completely soluble

9.2 Other information

Explosivity : no explosion risk

SECTION 10: Stability and reactivity

10.1 Reactivity

Potential for exothermic hazard

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Avoid contact with amphoteric metals (e.g. aluminium, lead, zinc).

10.5 Incompatible materials

Materials to avoid : Acids
Light metals

10.6 Hazardous decomposition products

Risk of decomposition. : No decomposition if used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : No data available

Skin corrosion/irritation

Skin irritation : Causes severe burns.

Serious eye damage/eye irritation

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Eye irritation : Causes severe burns.

Respiratory or skin sensitisation

Sensitisation : No data available

Toxicology Assessment

Acute effects : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Further information : If swallowed, severe burns in the oral cavity and throat as well as danger of perforation of the digestive tract and stomach.

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicology studies for the product are not available.

Toxicity to fish

Sodium Hydroxide : LC50: 125 mg/l
Exposure time: 96 h
Species: Gambusia affinis (Mosquito fish)

LC50: 145 mg/l
Exposure time: 24 h
Species: Poecilia reticulata

Toxicity to daphnia and other aquatic invertebrates

Sodium Hydroxide : EC50: 76 mg/l
Exposure time: 24 h
Species: Daphnia (water flea)

Toxicity to bacteria

Sodium Hydroxide : EC50: 22 mg/l
Exposure time: 15 min
Species: Photobacterium phosphoreum

12.2 Persistence and degradability

Biodegradability : The surfactants contained in this preparation comply with the

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biodegradability criteria as laid down in Regulation (EC)
No.907/2006 on detergents.

12.3 Bioaccumulative potential

Bioaccumulation : Bioaccumulation is unlikely.

12.4 Mobility in soil

Mobility : No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological information : slightly water endangering

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.

Waste Code : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

ADR

UN number : 1824
UN proper shipping name : SODIUM HYDROXIDE SOLUTION
Transport hazard class(es) : 8
Packing group : II
Classification Code : C5
Hazard Identification Number : 80
Limited Quantity (LQ) Inner Packaging : 1.00 L
Maximum quantity : 30.00 KG
Labels : 8
Tunnel restriction code : (E)
Environmentally hazardous : no

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IATA

UN number : 1824
Description of the goods : Sodium hydroxide solution
Class : 8
Packing group : II
Labels : 8

IATA_C

Packing instruction (cargo aircraft) : 855
Packing instruction (LQ) : Y840
Maximum quantity : 30.00 L
Environmentally hazardous : no

IATA_P

Packing instruction (passenger aircraft) : 851
Packing instruction (LQ) : Y840
Maximum quantity : 1.00 L
Environmentally hazardous : no

IMDG

UN number : 1824
Description of the goods : SODIUM HYDROXIDE SOLUTION
Class : 8
Packing group : II
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Marine pollutant : no

Alkalis
Separated from acids.

Alkalis
Separated from acids.

RID

UN number : 1824
Description of the goods : SODIUM HYDROXIDE SOLUTION
Transport hazard class(es) : 8
Packing group : II
Classification Code : C5
Hazard Identification Number : 80
Labels : 8
Limited Quantity (LQ) Inner : 1.00 L
Packaging :
Maximum quantity : 30.00 KG

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Environmentally hazardous : no

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Water contaminating class (Germany) : WGK 1 slightly water endangering
VWVWS A4

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.
Regional or national implementations of GHS may not implement all hazard classes and categories.

15.2 Chemical Safety Assessment

For a mixture it is not mandatory to include an exposure scenario in the material safety data sheet.
The necessary safety - related information is stated in the first 16 sections.

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R35 Causes severe burns.

Full text of H-Statements referred to under sections 2 and 3.

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Further information

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.