

## Safety data sheet

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Chemetall (now part of BASF Group) Safety data sheet

Date / Revised: 18.08.2021

Product: **GARDOCLEAN S5218**

Version: 1.0

(30720619/SDS\_GEN\_NZ/EN)

Date of print 26.08.2021

### 1. Substance/preparation and manufacturer/supplier identification

#### **GARDOCLEAN S5218**

Recommended use: Treatment of aluminium surfaces.

Not recommended use: Uses other than recommended

Manufacturer/supplier:

Chemetall (New Zealand) Ltd  
664 Rosebank Road Avondale,  
Auckland 1026  
NEW ZEALAND  
Telephone: 008 837 464, +64 9 820 3888  
Telefax number: +64 9 820 3979  
E-mail address: nzadmin@basf.com

Emergency information:

National Poisons Centre: 0800 764 766  
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)  
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

### 2. Hazard identification

Classification of the substance and mixture:

Skin corrosion/irritation: Cat. 1A

Serious eye damage/eye irritation: Cat. 1

Hazardous to the aquatic environment - acute: Cat. 3

Corrosive to metals: Cat. 1

Label elements and precautionary statement:

Pictogram:



Signal Word:  
 Danger

Hazard Statement:

H290 May be corrosive to metals.  
 H314 Causes severe skin burns and eye damage.  
 H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

P280 Wear protective gloves, protective clothing and eye protection or face protection.  
 P264 Wash contaminated body parts thoroughly after handling.  
 P234 Keep only in original packaging.  
 P260 Do not breathe dust or mist.  
 P273 Avoid release to the environment.

Precautionary Statements (Response):

P310 Immediately call a POISON CENTER or physician.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P390 Absorb spillage to prevent material damage.  
 P363 Wash contaminated clothing before reuse.  
 P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary Statements (Storage):

P405 Store locked up.  
 P406 Store in corrosive resistant container with a resistant inner liner.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

### 3. Composition/information on ingredients

#### Chemical nature

inorganic, organic, aqueous solution

### Hazardous ingredients

tetrasodium ethylenediaminetetraacetate	
Content (W/W): $\geq 1\%$ - $< 2\%$	Acute Tox.: Cat. 4 (Inhalation - dust)
CAS Number: 64-02-8	Acute Tox.: Cat. 4 (oral)
	Eye Dam./Irrit.: Cat. 1
	STOT RE (Respiratory system): Cat. 2 (by inhalation)
sodium hydroxide	
Content (W/W): $\geq 25\%$ - $< 30\%$	Met. Corr.: Cat. 1
CAS Number: 1310-73-2	Skin Corr./Irrit.: Cat. 1A
	Eye Dam./Irrit.: Cat. 1
Fatty alcohol alkoxyolate	
Content (W/W): $\geq 0.3\%$ - $< 0.5\%$	Skin Corr./Irrit.: Cat. 2
CAS Number: 120313-48-6	Aquatic Acute: Cat. 1
	Aquatic Chronic: Cat. 3

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## 4. First-Aid Measures

### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Keep warm, calm and covered up. Immediately remove contaminated clothing. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

### If inhaled:

Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

### On skin contact:

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required.

### On contact with eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

### On ingestion:

Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Rinse mouth immediately with water. Keep at rest.

### Note to physician:

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Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No known specific antidote.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon oxides, nitrogen oxides, phosphorus oxides

Hazardous decomposition products formed under fire conditions.

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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## 6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid breathing vapours. Keep away from sources of ignition. Ensure adequate ventilation. Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions:

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

Methods for cleaning up or taking up:

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

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## 7. Handling and Storage

### Handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

### Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

### Storage

Keep away from oxidising agents, from strongly alkaline and strongly acid materials. Segregate from acids and acid forming substances.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene (PP)

Further information on storage conditions: The entrance to storage rooms is to be granted only to appropriately trained personnel. Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Store only in corrosion proof containers. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. avoid contact with metals

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

sodium hydroxide, 1310-73-2;  
CLV 2 mg/m<sup>3</sup> (ACGIHTLV)  
CLV 2 mg/m<sup>3</sup> (OEL (NZ))

### Personal protective equipment

#### Respiratory protection:

Respiratory protection required if exposure limit (if available) may be exceeded (Gas filter EN 14387 B)

#### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

butyl rubber gloves - material thickness: 0.5 mm

nitrile rubber (NBR) - 0.4 mm coating thickness

Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

**Eye protection:**

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

**Body protection:**

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

**General safety and hygiene measures:**

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Ensure adequate ventilation. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

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## 9. Physical and Chemical Properties

Form:	liquid
Colour:	clear
Odour:	No data available.
pH value:	14.0 (20 °C) (undiluted)
solidification temperature:	not determined
onset of boiling:	> 100 °C
Flash point:	> 99 °C
Flammability (solid/gas):	hardly combustible
Lower explosion limit:	not determined
Ignition temperature:	not determined
Self heating ability:	It is not a substance capable of spontaneous heating.
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Vapour pressure:	(20 °C) not determined  (50 °C) not determined

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Density:	1.400 g/cm <sup>3</sup> (20 °C)
Solubility in water:	fully soluble
Miscibility with water:	miscible
Viscosity, kinematic:	(40 °C) No data available.
Flow time:	(20 °C) No data available.

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## 10. Stability and Reactivity

Conditions to avoid:  
Protect from sunlight. avoid contact with metals

Substances to avoid:  
acid forming substances, acids, metal, Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Corrosion to metals: Corrosive effect on metals.

Hazardous reactions:  
May react with aluminum, zinc or tin, with formation of hydrogen. Risk of exothermic reaction. In reaction with acids exothermic reaction.

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:  
Based on available data, the classification criteria are not met.

### Irritation

Assessment of irritating effects:  
Highly corrosive! Damages skin and eyes. May cause severe damage to the eyes.

May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

### Respiratory/Skin sensitization

**Assessment of sensitization:**

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

**Germ cell mutagenicity****Assessment of mutagenicity:**

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

**Carcinogenicity****Assessment of carcinogenicity:**

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

**Reproductive toxicity****Assessment of reproduction toxicity:**

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

**Developmental toxicity****Assessment of teratogenicity:**

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

**Specific target organ toxicity (single exposure):****Assessment of STOT single:**

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

**Repeated dose toxicity and Specific target organ toxicity (repeated exposure)****Assessment of repeated dose toxicity:**

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

**Aspiration hazard**

No aspiration hazard expected.

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**12. Ecological Information****Ecotoxicity****Assessment of aquatic toxicity:**

Harmful to aquatic life. There are no test results available for this product. Do not allow to enter drains or waterways.

**Mobility****Assessment transport between environmental compartments:**

No data available.



### Persistence and degradability

#### Elimination information:

The surfactant(s) contained in this preparation complies(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.

### Bioaccumulation potential

#### Bioaccumulation potential:

No data available.

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## 13. Disposal Considerations

Observe national and local legal requirements.

#### Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## 14. Transport Information

### Domestic transport:

Packing group: II  
ID number: UN 1824  
Transport hazard class(es): 8  
Proper shipping name: SODIUM HYDROXIDE SOLUTION

### Further information

Hazchem Code:2R  
IERG Number:37

### Sea transport

#### IMDG

Packing group: II  
ID number: UN 1824  
Transport hazard class(es): 8  
Marine pollutant: NO  
Proper shipping name: SODIUM HYDROXIDE SOLUTION

### Air transport

#### IATA/ICAO

Packing group: II  
ID number: UN 1824  
Transport hazard class(es): 8

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Proper shipping name: SODIUM HYDROXIDE SOLUTION

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## 15. Regulatory Information

### Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Tracking requirements do not apply to this substance.

A certified handler is not required for the handling of this substance.

HSNO Approval Number HSR002526

Cleaning Products (Corrosive) Group Standard 2017

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## 16. Other Information

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.