

# Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 20.05.2019

Product: **GARDOCLEAN S 5249**

Version: 1.0

(ID no. 30707034/SDS\_GEN\_00/EN)

Date of print 24.03.2021

## 1. Identification

### Product identifier

## **GARDOCLEAN S 5249**

Recommended use: Detergents

Not recommended use: None known

### Details of the supplier of the safety data sheet

Company:  
Chemetall U.S., Inc.  
675 Central Avenue  
New Providence, NJ 07974 – USA  
+1 800 526-4473  
sds.na-chemetall@basf.com

### Emergency telephone number

Telephone: 800-424-9300, 1-703-527-3887

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## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

Acute Tox. 4 (oral)

Skin Corr./Irrit. 1A

Eye Dam./Irrit. 1

Met. Corr. 1

For the classifications not written out in full in this section the full text can be found in section 16.

## Label elements

### Globally Harmonized System, UN (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

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

Precautionary Statements (Prevention):

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P264 Wash with plenty of water and soap thoroughly after handling.  
 P234 Keep only in original packaging.  
 P270 Do not eat, drink or smoke when using this product.  
 P260 Do not breathe dust or mist.

Precautionary Statements (Response):

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

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/container to hazardous or special waste collection point.

## Other hazards

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According to UN GHS criteria

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****Substances**

Not applicable

**Mixtures**Chemical nature

inorganic, organic

aqueous solution

Hazardous ingredients (GHS)

According to UN GHS criteria

## Potassium hydroxide

Content (W/W):  $\geq 20\%$  -  $< 25\%$ 

CAS Number: 1310-58-3

EC-Number: 215-181-3

INDEX-Number: 019-002-00-8

Met. Corr. 1

Acute Tox. 4 (oral)

Skin Corr./Irrit. 1A

Eye Dam./Irrit. 1

H290, H302, H314

Specific concentration limit:Skin Corr./Irrit. 2: 0,5 -  $< 2\%$ Eye Dam./Irrit. 2: 0,5 -  $< 2\%$ Skin Corr./Irrit. 1A:  $\geq 5\%$ Skin Corr./Irrit. 1B: 2 -  $< 5\%$ 

## Sodium hydroxide

Content (W/W):  $\geq 7\%$  -  $< 10\%$ 

CAS Number: 1310-73-2

EC-Number: 215-185-5

INDEX-Number: 011-002-00-6

Met. Corr. 1

Skin Corr./Irrit. 1A

Eye Dam./Irrit. 1

H290, H314

Specific concentration limit:Skin Corr./Irrit. 1A:  $\geq 5\%$ Skin Corr./Irrit. 1B: 2 -  $< 5\%$ Skin Corr./Irrit. 2: 0,5 -  $< 2\%$ Eye Dam./Irrit. 2: 0,5 -  $< 2\%$ 

For the classifications not written out in full in this section the full text can be found in section 16.

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## 4. First-Aid Measures

### Description of first aid measures

In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice.

On skin contact:

Flush with copious amounts of water for at least 15 minutes. Immediate medical attention required.

On contact with eyes:

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:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Summon medical aid without delay.

### Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or 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.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media for safety reasons:

water jet

### Special hazards arising from the substance or mixture

carbon oxides

Hazardous decomposition products formed under fire conditions.

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### **Advice for fire-fighters**

Special protective equipment:  
Appropriate breathing apparatus may be required.

Further information:

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. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Cool endangered containers with water-spray.

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## **6. Accidental Release Measures**

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

### **Environmental precautions**

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### **Methods and material for containment and cleaning up**

Ensure adequate ventilation. Pick up with inert absorbent material (e.g. sand, earth etc.). Take up mechanically and collect in suitable container (adequately labelled) for disposal.

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## **7. Handling and Storage**

### **Precautions for safe handling**

Do not return residues to the storage containers. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs. Warn users about safety measures and precautions to prevent accidents.

Protection against fire and explosion:

The substance/product is non-combustible. The relevant fire protection measures should be noted.

### **Conditions for safe storage, including any incompatibilities**

Segregate from acids.

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 only in the original container. Keep in a cool, well-ventilated place. avoid contact with metals Protect from frost. Avoid direct sunlight.

Storage stability:

Storage temperature: -7 - 40 °C

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Protect from temperatures below: -7 °C

Protect from temperatures above: 40 °C

### **Specific end use(s)**

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## **8. Exposure Controls/Personal Protection**

### **Control parameters**

#### Components with occupational exposure limits

1310-58-3: Potassium hydroxide

1310-73-2: Sodium hydroxide

### **Exposure controls**

#### Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. (Gas filter EN 14387 B)

Hand protection:

Chemical resistant protective gloves (EN 374)

Further information on penetration time is available from the manufacturer of the glove.

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

Use suitable protective gloves made of nitrile rubber or butyl rubber. Please observe the glove manufacturer's instructions on permeability and rupture times as well as the specific workplace conditions.

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

Handle in accordance with good industrial hygiene and safety practice. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. Keep away from food, drink and animal feeding stuffs. Hands and/or face should be washed before breaks and at the end of the shift.

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## **9. Physical and Chemical Properties**

### **Information on basic physical and chemical properties**

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Form:	liquid	
Colour:	light yellow	
Odour:	perceptible	
Odour threshold:	No data available.	
pH value:	> 11,5 (20 °C) (undiluted)	
Melting point:	< -7,00 °C	
onset of boiling:	not determined	
Flash point:	not applicable	
Evaporation rate:	No data available.	
Flammability:	not applicable	
Lower explosion limit:	not determined	
Ignition temperature:	not determined	
Vapour pressure:	(20 °C) not determined	
Density:	(50 °C) not determined 1,380 g/cm <sup>3</sup> (20 °C)	(DIN 51757)
Relative vapour density (air):	No data available.	
Solubility in water:	completely miscible	
Self ignition:	not self-igniting	
Viscosity, kinematic:	(40 °C) not determined	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
<b>Other information</b>		
Self heating ability:	It is not a substance capable of spontaneous heating.	
Miscibility with water:	miscible	

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## 10. Stability and Reactivity

### Reactivity

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No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effect on metals.

### **Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

### **Possibility of hazardous reactions**

May react with aluminum, zinc or tin, with formation of hydrogen. Risk of exothermic reaction.

### **Conditions to avoid**

Protect from sunlight.

### **Incompatible materials**

Substances to avoid:  
acids, light metals

### **Hazardous decomposition products**

Possible decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

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## **11. Toxicological Information**

### **Information on toxicological effects**

#### Acute toxicity

Assessment of acute toxicity:  
Of moderate toxicity after single ingestion.

*Information on: Potassium hydroxide*

*Experimental/calculated data:  
LD50 rat (oral): 333 mg/kg (OECD Guideline 425)  
Literature data.*

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#### Irritation

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

#### Respiratory/Skin sensitization

Assessment of sensitization:



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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

### **Toxicity**

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways. Based on available Data, the classification criteria are not met.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

No data available concerning biodegradation and elimination.

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### **Bioaccumulative potential**

Bioaccumulation potential:  
No data available.

### **Mobility in soil**

Assessment transport between environmental compartments:  
Adsorption in soil: No data available.

### **Results of PBT and vPvB assessment**

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### **Other adverse effects**

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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## **13. Disposal Considerations**

### **Waste treatment methods**

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**

### **Land transport**

ADR

UN number	UN3266
UN proper shipping name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (contains SODIUM HYDROXIDE, POTASSIUM HYDROXIDE)
Transport hazard class(es):	8
Packing group:	II
Environmental hazards:	no
Special precautions for	Tunnel code: E

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user:

RID

UN number UN3266  
UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (contains SODIUM HYDROXIDE, POTASSIUM HYDROXIDE)  
Transport hazard class(es): 8  
Packing group: II  
Environmental hazards: no  
Special precautions for user:

**Inland waterway transport**

ADN

UN number UN3266  
UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (contains SODIUM HYDROXIDE, POTASSIUM HYDROXIDE)  
Transport hazard class(es): 8  
Packing group: II  
Environmental hazards: no  
Special precautions for user:

**Transport in inland waterway vessel**

Not evaluated

**Sea transport**

IMDG

UN number: UN 3266  
UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (contains SODIUM HYDROXIDE, POTASSIUM HYDROXIDE)  
Transport hazard class(es): 8  
Packing group: II  
Environmental hazards: no  
Marine pollutant: NO  
Special precautions for user:

**Air transport**

IATA/ICAO

UN number: UN 3266

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UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (contains SODIUM HYDROXIDE, POTASSIUM HYDROXIDE)

Transport hazard class(es): 8

Packing group: II

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for user:

### Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation: Not evaluated

Shipment approved: Not evaluated

Pollution name: Not evaluated

Pollution category: Not evaluated

Ship Type: Not evaluated

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## 15. Regulatory Information

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

Not applicable

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## 16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Met. Corr.	Corrosive to metals
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

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.

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