

**Safety Data Sheet**  
**GardoClean S 5655**

Revision date : 2019/07/23

Page: 1/9

Version: 1.0

(30690912/SDS\_GEN\_US/EN)

**1. Identification****Product identifier used on the label****GardoClean S 5655****Recommended use of the chemical and restriction on use**

Recommended use\*: Surface treatment agent; Restricted to professional users.

Unsuitable for use: None known

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

**Emergency telephone number**

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

**Other means of identification****2. Hazards Identification****According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200****Classification of the product**

Acute Tox.	4 (oral)	Acute toxicity
Skin Corr./Irrit.	1	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Carc.	2	Carcinogenicity
Met. Corr.	1	Corrosive to metals

**Label elements**

Pictogram:

# Safety Data Sheet

## GardoClean S 5655

Revision date : 2019/07/23

Version: 1.0

Page: 2/9

(30690912/SDS\_GEN\_US/EN)



Signal Word:  
Danger

#### Hazard Statement:

H314	Causes severe skin burns and eye damage.
H302	Harmful if swallowed.
H290	May be corrosive to metals.
H351	Suspected of causing cancer.

#### Precautionary Statements (Prevention):

P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P260	Do not breathe dust or mist.
P270	Do not eat, drink or smoke when using this product.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash with plenty of water and soap thoroughly after handling.
P234	Keep only in original packaging.

#### Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
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.
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.

#### 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.
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### Hazards not otherwise classified

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.

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## 3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

# Safety Data Sheet

## GardoClean S 5655

Revision date : 2019/07/23

Page: 3/9

Version: 1.0

(30690912/SDS\_GEN\_US/EN)

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
1310-58-3	>= 15.0 - < 20.0%	Potassium hydroxide
5064-31-3	>= 5.0 - < 7.0%	trisodium nitrilotriacetate
60828-78-6	>= 1.0 - < 3.0%	Poly(oxy-1,2-ethanediyl), .alpha.-[3,5-dimethyl-1-(2-methylpropyl)hexyl]-.omega.-hydroxy-
28805-58-5	>= 1.0 - < 3.0%	Octenylsuccinic acid

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

Immediately remove contaminated clothing. First aid personnel should pay attention to their own safety. Remove affected person from danger area. Show container, label and/or safety data sheet to physician.

##### If inhaled:

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

##### If on skin:

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

##### If in 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.

##### If swallowed:

Rinse mouth immediately with 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

##### Note to physician

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

### 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

# Safety Data Sheet

## GardoClean S 5655

Revision date : 2019/07/23

Version: 1.0

Page: 4/9

(30690912/SDS\_GEN\_US/EN)

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
carbon oxides, nitrogen oxides

### Advice for fire-fighters

Protective equipment for fire-fighting:  
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, 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 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 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.

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# Safety Data Sheet

## GardoClean S 5655

Revision date : 2019/07/23

Version: 1.0

Page: 5/9

(30690912/SDS\_GEN\_US/EN)

### 8. Exposure Controls/Personal Protection

#### Components with occupational exposure limits

Potassium hydroxide	OSHA PEL	CLV 2 mg/m <sup>3</sup> ;
	ACGIH TLV	CLV 2 mg/m <sup>3</sup> ;

#### **Advice on system design:**

Use only in well-ventilated areas.

#### Personal protective equipment

##### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate.

##### **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.

### 9. Physical and Chemical Properties

Form:	liquid
Odour:	mild
Odour threshold:	No data available.
Colour:	amber
pH value:	> 12.5 ( 60.6 g/l, 20 °C)
Freezing point:	-22 °C
onset of boiling:	not determined
Flash point:	> 93 °C
Flammability:	hardly combustible
Lower explosion limit:	not determined
Upper explosion limit:	not applicable
Autoignition:	not determined
Vapour pressure:	( 20 °C) not determined
Density:	1.208 g/cm <sup>3</sup> ( 20 °C)
Vapour density:	No data available.
Solubility in water:	fully soluble
Miscibility with water:	miscible
Evaporation rate:	No data available.

# Safety Data Sheet

## GardoClean S 5655

Revision date : 2019/07/23  
Version: 1.0

Page: 6/9  
(30690912/SDS\_GEN\_US/EN)

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### 10. Stability and Reactivity

#### Reactivity

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

Corrosion to metals:  
Corrosive effect on metals.

Oxidizing properties:  
not fire-propagating

#### 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

Avoid freezing.

#### Incompatible materials

acids, light metals

#### Hazardous decomposition products

Decomposition products:  
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

#### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

#### Primary routes of entry

Ingestion  
Skin

#### Acute Toxicity/Effects

##### Oral

Type of value: ATE  
Value: 500.0000 mg/kg

#### Chronic Toxicity/Effects

#### Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

# Safety Data Sheet

## GardoClean S 5655

Revision date : 2019/07/23  
Version: 1.0

Page: 7/9  
(30690912/SDS\_GEN\_US/EN)

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### 12. Ecological Information

#### Bioaccumulative potential

Bioaccumulation potential

No data available.

#### Mobility in soil

Assessment transport between environmental compartments

No data available.

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### 13. Disposal considerations

#### Waste disposal of substance:

Observe national and local legal requirements.

#### Container disposal:

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

USDOT

Hazard class: 8  
Packing group: II  
ID number: UN 1814  
Hazard label: 8  
Proper shipping name: POTASSIUM HYDROXIDE SOLUTION

#### Sea transport

IMDG

Hazard class: 8  
Packing group: II  
ID number: UN 1814  
Hazard label: 8  
Marine pollutant: NO  
Proper shipping name: POTASSIUM HYDROXIDE SOLUTION

#### Air transport

IATA/ICAO

Hazard class: 8  
Packing group: II  
ID number: UN 1814  
Hazard label: 8  
Proper shipping name: POTASSIUM HYDROXIDE SOLUTION

# Safety Data Sheet

## GardoClean S 5655

Revision date : 2019/07/23  
Version: 1.0

Page: 8/9  
(30690912/SDS\_GEN\_US/EN)

### 15. Regulatory Information

#### Federal Regulations

**Registration status:**

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
1000 LBS	1310-58-3	Potassium hydroxide

#### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	1310-58-3	Potassium hydroxide
PA	1310-58-3	Potassium hydroxide

#### **Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**WARNING:** This product can expose you to chemicals including NITRILOTRIACETIC ACID AND ITS SALTS, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### **NFPA Hazard codes:**

Health: 3 Fire: 0 Reactivity: 0 Special:

#### **HMIS III rating**

Health: 3 Flammability: 0 Physical hazard: 0

### 16. Other Information

#### **SDS Prepared by:**

BASF NA Product Regulations  
SDS Prepared on: 2019/07/23

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# Safety Data Sheet

## GardoClean S 5655

Revision date : 2019/07/23

Page: 9/9

Version: 1.0

(30690912/SDS\_GEN\_US/EN)

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