

# Safety Data Sheet

## Gardoclean A 1008

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### 1. Identification

**Product identifier used on the label**

**Gardoclean A 1008**

**Recommended use of the chemical and restriction on use**

Unsuitable for use: Uses other than recommended

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

**Emergency telephone number**

24 Hour Emergency Response Information  
CHEMTREC: 800-424-9300, +1-703-527-3887

**Other means of identification**

Chemical family: organic compounds, surfactant, Water, polymers, inorganic salts

### 2. Hazards Identification

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

**Classification of the product**

Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Repr.	1 (unborn child, fertility)	Reproductive toxicity
Skin Corr./Irrit.	2	Skin corrosion/irritation

**Label elements**

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Pictogram:



Signal Word:  
Danger

Hazard Statement:

H315	Causes skin irritation.
H318	Causes serious eye damage.
H360	May damage fertility. May damage the unborn child.

Precautionary Statements (Prevention):

P201	Obtain special instructions before use.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash contaminated body parts thoroughly after handling.

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.
P310	Immediately call a POISON CENTER or physician.
P308 + P313	IF exposed or concerned: Get medical attention.
P332 + P313	If skin irritation occurs: Get medical attention.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

P405	Store locked up.
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Precautionary Statements (Disposal):

P501	Dispose of contents and 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.

## 3. Composition / Information on Ingredients

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

Trade Secret Registry

CAS Number: Trade Secret

Content (W/W):  $\geq 3.0$  -  $< 5.0\%$

Synonym: No data available.

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2,2',2''-nitrilotriethanol

CAS Number: 102-71-6

Content (W/W):  $\geq 1.0 - < 3.0\%$

Synonym: 2,2',2''-Nitrilotriethanol; Triethanolamine

Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether

CAS Number: 68154-99-4

Content (W/W):  $\geq 1.0 - < 3.0\%$

Synonym: No data available.

Disodium tetraborate

CAS Number: 1330-43-4

Content (W/W):  $\geq 1.0 - < 3.0\%$

Synonym: No data available.

Polyoxyethylene aryl ether phosphate

CAS Number: 39464-70-5

Content (W/W):  $\geq 1.0 - < 3.0\%$

Synonym: Poly(oxy-1,2-ethanediyl), alpha-phenyl-omega-hydroxy-, phosphate

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Keep warm, calm and covered up. 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.

#### If on skin:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

#### If in 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.

#### If swallowed:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

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

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.

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*Information on: 2,2',2''-nitrioltriethanol*

*Symptoms: Overexposure may cause:, Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

*Information on: Disodium tetraborate*

*Symptoms: Overexposure may cause:, Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

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

#### Note to physician

Antidote:	No known specific antidote.
Treatment:	Symptomatic treatment (decontamination, vital functions).

## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media for safety reasons:

water jet

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon oxides, nitrogen oxides, phosphorus oxides

Hazardous decomposition products formed under fire conditions.

### 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.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

### 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.

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### Methods and material for containment and cleaning 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.

## 7. Handling and Storage

### Precautions for safe 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:  
The relevant fire protection measures should be noted.

### Conditions for safe storage, including any incompatibilities

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), Polyethyleneterephthalate (PET), Polypropylene (PP), Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. 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. Store protected against freezing.

Storage stability:  
Storage temperature: 0 - 40 °C  
Storage duration: 24 Months

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

2,2',2"-nitrilotriethanol	ACGIH, US:	TWA value 5 mg/m <sup>3</sup> ;
2-aminoethanol	ACGIH, US:	STEL value 6 ppm ;
	ACGIH, US:	TWA value 3 ppm ;
	OSHA Z1:	PEL 3 ppm 6 mg/m <sup>3</sup> ;

### Personal protective equipment

#### Respiratory protection:

Respiratory protection required if exposure limit (if available) may be exceeded

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### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1), nitrile rubber (NBR) - 0.4 mm coating thickness, butyl rubber gloves - material thickness: 0.5 mm, 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. Ensure adequate ventilation. 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. 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.

## 9. Physical and Chemical Properties

Form:	liquid	
Odour:	No data available.	
Odour threshold:	No applicable information available.	
Colour:	light brown	
pH value:	9.5 ( 20 °C) (undiluted)	
Freezing point:	< 0 °C	
Melting point:	< 0 °C	
Boiling range:	not determined	
onset of boiling:	not determined	
Sublimation point:	No applicable information available.	
Flash point:	not applicable	(ISO 3679)
Flammability:	not applicable	
Lower explosion limit:	not determined	
Upper explosion limit:	not applicable	
Vapour pressure:	( 20 °C) not determined	
Density:	1.078 g/cm <sup>3</sup> ( 20 °C)	
Relative density:	No applicable information available.	
Vapour density:	Lighter than air.	
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	No applicable information available.	
Solubility in water:	fully soluble	

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Miscibility with water:	miscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	No applicable information available.

## 10. Stability and Reactivity

### Reactivity

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

Oxidizing properties:  
not fire-propagating

### Chemical stability

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

### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

### Conditions to avoid

Avoid direct sunlight. Avoid freezing.

### Incompatible materials

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

### Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

## 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.

### Acute Toxicity/Effects

#### Acute toxicity

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

#### Oral

Type of value: ATE

Value: 127,226 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

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### Inhalation

Type of value: ATE

Value: > 20 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

### Dermal

Type of value: ATE

Value: 78,864 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

### Assessment other acute effects

Assessment of STOT single:

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

### Irritation / corrosion

Assessment of irritating effects: Skin contact causes irritation. May cause severe damage to the eyes.

*Information on: Disodium tetraborate*

*Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

### Sensitization

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

### Aspiration Hazard

No aspiration hazard expected.

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

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

### Genetic toxicity

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.

*Information on: 2,2',2''-nitrioltriethanol*

*Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. The effect is caused by an animal specific mechanism that has no human counter part. Under certain conditions the substance can form nitrosamines. Nitrosamines are carcinogenic in animal studies. IARC Group 3 (not classifiable as to human carcinogenicity).*

*Indication of possible carcinogenic effect in animal tests. The substance showed carcinogenic activity in animals after chronic administration to the skin.*

### Reproductive toxicity



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Assessment of reproduction toxicity: Causes impairment of fertility in laboratory animals.

*Information on: Disodium tetraborate*

*Assessment of reproduction toxicity: Causes impairment of fertility in laboratory animals.*

### Teratogenicity

Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals.

*Information on: 2,2',2''-nitrilotriethanol*

*Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition. Causes developmental effects in animals at high, maternally toxic doses.*

*Information on: Disodium tetraborate*

*Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals.*

### Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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## 12. Ecological Information

### **Toxicity**

Aquatic 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.

### **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:**

Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.

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### Container disposal:

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

## 14. Transport Information

### Land transport

USDOT

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

## 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.

### State regulations

#### State RTK

NJ

PA

#### CAS Number

102-71-6

102-71-6

1330-43-4

#### Chemical name

2,2',2"-nitrilotriethanol

2,2',2"-nitrilotriethanol

Disodium tetraborate

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

**WARNING:** This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### NFPA Hazard codes:

Health: 3

Fire: 0

Reactivity: 1

Special:

### HMIS III rating

Health: 3 $\alpha$

Flammability: 0

Physical hazard: 1

## 16. Other Information

### SDS Prepared by:

Chemetall (now part of BASF Group) NA Product Regulations

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SDS Prepared on: 2023/02/22

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