

# Safety Data Sheet

## Gardacid P 84

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### 1. Identification

#### Product identifier used on the label

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

Recommended use\*: Detergents

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:

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

Telephone: +1 973 245-6000

#### Emergency telephone number

##### 24 Hour Emergency Response Information

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

#### Other means of identification

Chemical family: inorganic, organic, blend

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### 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
Met. Corr.	1	Corrosive to metals

#### Label elements

Pictogram:

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Signal Word:  
Danger

Hazard Statement:  
H318 Causes serious eye damage.  
H290 May be corrosive to metals.

Precautionary Statements (Prevention):  
P234 Keep only in original packaging.  
P280 Wear protective gloves, protective clothing and eye protection or face protection.

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.  
P390 Absorb spillage to prevent material damage.

Precautionary Statements (Storage):  
P406 Store in corrosive resistant container with a resistant inner liner.

### 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

Citric acid

CAS Number: 77-92-9  
Content (W/W):  $\geq 5.0$  -  $< 7.0\%$   
Synonym: 2-Hydroxy-1,2,3-propanetricarboxylic acid; Citric acid

sodium hydrogensulfate

CAS Number: 7681-38-1  
Content (W/W):  $\geq 75.0$  -  $\leq 100.0\%$   
Synonym: No data available.

Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salt

CAS Number: 68081-81-2  
Content (W/W):  $\geq 1.0$  -  $< 3.0\%$   
Synonym: No data available.

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## 4. First-Aid Measures

### Description of first aid measures

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### 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. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

### If inhaled:

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

*Information on: Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salt*

*Symptoms: Overexposure may cause: corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

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Hazards: Dusts may cause mechanical irritation to eyes.

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

### Note to physician

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

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## 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, phosphorus oxides, sulfur oxides

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### 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. Keep away from sources of ignition. Ensure adequate ventilation. Do not inhale dusts. 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

Avoid dust formation. Contain and collect mechanically and dispose of in accordance with local regulations. Ensure adequate ventilation.

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## 7. Handling and Storage

### Precautions for safe handling

Avoid dust formation. Protect against moisture. 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. 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 dust formation. Avoid all sources of ignition: heat, sparks, open flame. 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.

Suitable materials for containers: Stove-lacquer R 78433, Stove-lacquer EHD0022, High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephthalate (PET), Polypropylene (PP)

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Protect against moisture. 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/Personal Protection

No occupational exposure limits known.

#### Personal protective equipment

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

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

##### **Hand protection:**

Chemical resistant protective gloves (EN ISO 374-1), 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:**

Eye wash fountains and safety showers must be easily accessible. Avoid inhalation of dusts. 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:	solid
Odour:	No applicable information available.
Odour threshold:	No applicable information available.
Colour:	No applicable information available.
pH value:	1.5 ( 15.00000 g/l)
Melting point:	not determined
Freezing point:	not determined
Boiling range:	not determined
onset of boiling:	not determined
Sublimation point:	No applicable information available.
Flash point:	not applicable
Flammability:	not flammable
Lower explosion limit:	not applicable
Upper explosion limit:	No applicable information available.
Autoignition:	not applicable
Vapour pressure:	( 20 °C) not determined
Density:	1.000 g/cm <sup>3</sup> ( 20 °C)
Relative density:	No applicable information available.
Bulk density:	1,198 kg/m <sup>3</sup>
Vapour density:	No applicable information available.

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Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.
Thermal decomposition:	No applicable information available.
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	( 20 °C) not applicable
Solubility in water:	No applicable information available.
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.

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

Dust can form an explosive mixture with air. Reacts with metals, with evolution of hydrogen.

### Conditions to avoid

Avoid dust formation. Avoid direct sunlight. Avoid humidity. avoid contact with metals

### Incompatible materials

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermic reactions.

### 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.

Thermal decomposition:  
No applicable information available.

## 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

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### Irritation / corrosion

Assessment of irritating effects: Causes serious eye damage.

### **Chronic Toxicity/Effects**

#### Repeated dose toxicity

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

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## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

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

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:**

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: III

ID number: UN 1759

Hazard label: 8

Proper shipping name: CORROSIVE SOLID, N.O.S. (contains Citric acid)

### **Sea transport**

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### IMDG

Hazard class: 8  
Packing group: III  
ID number: UN 1759  
Hazard label: 8  
Marine pollutant: NO  
Proper shipping name: CORROSIVE SOLID, N.O.S. (contains Citric acid)

### Air transport

#### IATA/ICAO

Hazard class: 8  
Packing group: III  
ID number: UN 1759  
Hazard label: 8  
Proper shipping name: CORROSIVE SOLID, N.O.S. (contains Citric acid)

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## 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.

### CERCLA RQ

5000 LBS

### CAS Number

7558-79-4

### Chemical name

disodium hydrogen orthophosphate

### State regulations

#### State RTK

PA

#### CAS Number

7558-79-4

#### Chemical name

disodium hydrogen orthophosphate

7757-82-6

Sodium sulfate

NJ

7558-79-4

disodium hydrogen orthophosphate

7681-38-1

sodium hydrogensulfate

#### NFPA Hazard codes:

Health: 3 Fire: 0 Reactivity: 1 Special:

#### HMIS III rating

Health: 3 Flammability: 0 Physical hazard: 1

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## 16. Other Information

#### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2021/07/06

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in



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a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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