

# Safety Data Sheet

## GardAcid N 4480/1

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Version: 5.0

(30691268/SDS\_GEN\_US/EN)

### 1. Identification

Product identifier used on the label

**GardAcid N 4480/1**

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

Recommended use\*: Rust remover

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 compounds, organic compounds, Water

### 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

**Label elements**

Pictogram:

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Signal Word:  
Warning

Hazard Statement:  
H302 Harmful if swallowed.

Precautionary Statements (Prevention):  
P264 Wash contaminated body parts thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

Precautionary Statements (Response):  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth.

Precautionary Statements (Disposal):  
P501 Dispose of contents and container to hazardous or special waste collection point.

### 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

Phosphonic acid, P,P'-(1-hydroxyethylidene)bis-, potassium salt (1:?)  
CAS Number: 67953-76-8  
Content (W/W): >= 25.0 - < 50.0%  
Synonym: HEDP K: R22-41; H290-302-318

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

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.

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### 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:

If symptoms persist, seek medical advice. Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution.

### If swallowed:

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

## 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: Phosphonic acid, P,P'-(1-hydroxyethylidene)bis-, potassium salt (1:?)*

*Symptoms: Overexposure may cause: corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, 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).

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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:

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.

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## 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.

### 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.

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## 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:

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: Low density polyethylene (LDPE), Polyethyleneterephthalate (PET), Polypropylene (PP), Carbon steel (Iron), tinned carbon steel (Tinplate), High density polyethylene (HDPE)

Further information on storage conditions: Keep container dry. Keep away from heat. 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

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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), chloroprene rubber (CR) - 0.5 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. 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:	odourless	
Odour threshold:	No applicable information available.	
Colour:	colourless	
pH value:	6.2 - 7.4	
Melting point:	> 1 °C	
Freezing point:	No data available.	
onset of boiling:	not determined	
Boiling point:	not determined	
Sublimation point:	No applicable information available.	
Flash point:	not applicable The product has not been tested. The statement has been derived from the properties of the individual components.	(ISO 3679)
Flammability:	not applicable	
Lower explosion limit:	not determined	
Upper explosion limit:	not applicable	
Autoignition:	No applicable information available.	
Vapour pressure:	( 20 °C) not determined	

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Density:	1.213 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.
Viscosity, kinematic:	No applicable information available.
Solubility in water:	fully soluble
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.

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## 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 heat. Avoid direct sunlight. Avoid freezing.

### Incompatible materials

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

### Hazardous decomposition products

Decomposition products:

Possible 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 decomposition if stored and handled as prescribed/indicated.

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## 11. Toxicological information

### Primary routes of exposure

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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: Of moderate toxicity after single ingestion.

#### Oral

Type of value: ATE

Value: 1,961 mg/kg

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

#### 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: > 2,000 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: Based on available data, the classification criteria are not met.

#### 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.

#### Reproductive toxicity

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

#### Teratogenicity

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

### Other Information

The product has not been tested. The statement has 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 (H2O)

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.

### **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

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



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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.

#### NFPA Hazard codes:

Health: 2 Fire: 1 Reactivity: 1 Special:

#### HMIS III rating

Health: 2 Flammability: 1 Physical hazard: 1

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## 16. Other Information

#### SDS Prepared by:

BASF NA Product Regulations  
SDS Prepared on: 2023/04/20

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 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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