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SAFETY DATA SHEET

1. Identification

Product identifier used on the label

Gardacid 4294

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

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

Other means of identification

Chemical family: inorganic

Section 2. Hazards Identification

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

Classification of the product

Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic

Label elements

Pictogram:



Signal Word:
Warning

Hazard Statement:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

- P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing and eye protection or face protection.
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.
P332 + P313 If skin irritation occurs: Get medical attention.
P337 + P313 If eye irritation persists: 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 (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.

Section 3. Composition / Information on Ingredients

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

Sulphamic acid

CAS Number: 5329-14-6
Content (W/W): $\geq 75.0 - \leq 100.0\%$
Synonym: R36/38-52/53; H315-319-412

Magnesium oxide (MgO)

CAS Number: 1309-48-4
Content (W/W): $\geq 1.0 - < 3.0\%$
Synonym: No data available.

Section 4. First-Aid Measures

Description of first aid measures

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: Sulphamic acid

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: Magnesium oxide (MgO)

Symptoms: Overexposure may cause: leukocytosis, metal fume fever, tightness in the chest, fever, coughing, headache

Hazards: Eye irritation Dusts may cause mechanical irritation to eyes. skin irritation

Indication of any immediate medical attention and special treatment needed

Note to physician

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

Section 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:
Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

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.

Section 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.

Section 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

No applicable information available.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephthalate (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 container tightly closed in a cool, well-ventilated place. Avoid direct sunlight. Protect against moisture.

Section 8. Exposure Controls/Personal Protection

Components with occupational exposure limits

Magnesium oxide (MgO)	OSHA PEL	PEL 15 mg/m3 Total particulate ; TWA value 10 mg/m3 Total particulate ;
	ACGIH TLV	TWA value 10 mg/m3 Inhalable fraction ;

Advice on system design:

Use only in well-ventilated areas. Avoid the formation and deposition of dust.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

Hand protection:

chloroprene rubber (Neoprene), 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., Chemical resistant protective gloves (EN 374), Further information on penetration time is available from the manufacturer of the glove., The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

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. 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.

Section 9. Physical and Chemical Properties

Form:	solid
Odour:	musty
Odour threshold:	No applicable information available.
Colour:	brown
pH value:	< 2.5
Melting point:	not determined
Freezing point:	not determined
onset of boiling:	not determined
Boiling range:	not determined
Sublimation point:	No applicable information available.
Flash point:	not applicable
Flammability:	not flammable
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Autoignition:	not applicable
Vapour pressure:	(20 °C) not determined
Density:	1.246 g/cm ³ (20 °C)
Relative density:	No applicable information available.
Bulk density:	77.79 lb/ft ³
Vapour density:	No applicable information available.
Partitioning coefficient n-octanol/water (log Pow):	No data 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:	No data available.
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	not applicable

Section 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

Dust can form an explosive mixture with air.

Conditions to avoid

Avoid dust formation. Avoid direct sunlight. Avoid humidity.

Incompatible materials

bases, strong oxidizing agents

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.

Section 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

Irritation / corrosion

Assessment of irritating effects: Causes serious eye irritation. Skin contact causes irritation.

Chronic Toxicity/Effects

Repeated dose toxicity

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

Section 12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Harmful to aquatic life with long lasting effects. Do not allow to enter drains or waterways. There are no test results available for this product.

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.

Section 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.

Section 14. Disposal considerations

Land transport

USDOT

Hazard class:	8
Packing group:	III
ID number:	UN 2967
Hazard label:	8
Proper shipping name:	SULPHAMIC ACID

Sea transport

IMDG

Hazard class:	8
Packing group:	III
ID number:	UN 2967
Hazard label:	8
Marine pollutant:	NO
Proper shipping name:	SULPHAMIC ACID

Air transport

IATA/ICAO

Hazard class:	8
Packing group:	III
ID number:	UN 2967
Hazard label:	8
Proper shipping name:	SULPHAMIC ACID

Section 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

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	5329-14-6	Sulphamic acid
	1309-48-4	Magnesium oxide (MgO)
PA	1309-48-4	Magnesium oxide (MgO)

NFPA Hazard codes:

Health: 2 Fire: 0 Reactivity: 1 Special:

HMIS III rating

Health: 2 Flammability: 0 Physical hazard: 1

16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2020/06/10

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