

# Safety Data Sheet (SDS)

## I. Identification

**Product name:** Nano Antibacterial Deodorizing Granules (the name on the actual shipment shall prevail).

**Other designation(s):** GEA462

**Recommended use:** Please consult the manufacturer or supplier.

**Manufacturer/Supplier:** Gredmann New Material (Suzhou) Co., Ltd

**Address:** Room 402, Building C, Baigou Commercial Plaza, No. 99 Yangchenghu East Road, Yuanhe Sub-district, Xiangcheng District, Suzhou, China

**Emergency phone:** +86-512-6545-8882

## II. Hazard Identification

### Emergency overview

Harmful if swallowed. May cause skin irritation. May cause an allergic skin reaction. May cause serious eye damage. May be fatal if inhaled. Very toxic to aquatic life with long-lasting effects. Do not give anything by mouth to an unconscious person; rinse mouth with water.

**Routes of exposure:** Inhalation, ingestion, dermal absorption.

**Health hazards:** Harmful if swallowed. May cause skin irritation. May cause an allergic skin reaction. May cause serious eye damage. May be fatal if inhaled.

**Environmental hazards:** Very toxic to aquatic life with long-lasting effects.

### Precautionary/first-aid statements:

**Skin contact:** Remove contaminated clothing and rinse skin with plenty of water for at least 15 minutes. Get medical advice/attention. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact:** Rinse cautiously with plenty of water for at least 15 minutes, including under the eyelids. If in eyes, rinse immediately with plenty of water and seek medical attention.

**Inhalation:** Move person to fresh air. If breathing has stopped, provide artificial respiration. If the victim has ingested or inhaled the substance, do not use mouth-to-mouth; use a pocket mask with a one-way valve or other appropriate respiratory device. Get medical advice/attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Call a doctor or poison control center immediately.

**If exposed or concerned:** Get medical advice/attention. If you feel unwell, seek medical advice/attention.

## III. Composition / Information on Ingredients

Components	CAS. No	Content (wt%)
Guanidine hydrochloride	31961-54-3	97~100%
Methoxysilane	13822-56-5	
Zinc	14281-83-5	
Styrene-acrylic emulsion	25085-34-1	
Silicon dioxide (silica)	14808-60-7	
Solid dispersant	/	<1%

The above data do not constitute product specifications.

## IV. First-Aid Measures

### First aid:

**Inhalation:** Move the person to fresh air. If breathing has stopped, administer artificial respiration. If the substance has been ingested or inhaled, do not perform mouth-to-mouth; use a pocket mask with a one-way valve or other appropriate respiratory device. Seek medical advice/attention.

**Skin contact:** Remove contaminated clothing and rinse skin immediately with plenty of water for at least 15 minutes. Get medical advice/attention. If skin irritation occurs, seek medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact:** Rinse cautiously with plenty of water for at least 15 minutes, including under the eyelids. If product gets into the eyes, rinse immediately with plenty of water and seek medical attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

**Advice for rescuers:** Move the victim to a safe area. Consult a physician. Show the on-scene doctor this Safety Data Sheet.

**Notes to physician:** Treat symptomatically.

## V. Firefighting Measures

**Extinguishing method and media:** Dry powder.

**Specific hazards arising from the substance or mixture:** Carbon oxides, nitrogen oxides, sulfur oxides.

**Special protective equipment and precautions for firefighting:** In any fire, wear a pressure-demand self-contained breathing apparatus approved by MSHA/NIOSH (or equivalent) and full protective gear. Thermal decomposition may release irritating gases and vapors.

## VI. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Ensure adequate ventilation. Use the required personal protective equipment. Avoid creating dust. Keep personnel away from the spill/release area or position them upwind. Evacuate personnel to a safe area.

**Environmental precautions:** If it is safe to do so, take measures to prevent further leakage or spillage. Do not allow the product to enter drains or sewers. Avoid discharge to the surrounding environment. Notify local authorities if a large spill cannot be controlled.

**Methods and materials for containment and cleanup:** Avoid generating dust during collection and disposal. Sweep up and shovel. Place in a suitable, closed container for disposal.

## VII. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid the formation of dusts and aerosols. Where dust may be generated, wear personal protective equipment/a protective mask. Provide appropriate exhaust ventilation. Do not breathe (dust, vapors, fumes, gases). Do not ingest. If swallowed, contact a physician immediately.

**Conditions for safe storage, including any incompatibilities:** Keep containers tightly closed and store in a dry, well-ventilated place. Store at room temperature.

## VIII. Exposure Controls/Personal Protection

### Control parameters

**Hazardous components and occupational exposure limits:** No national occupational exposure limits are known.

### Exposure controls

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday. Ensure an eyewash station and safety shower are available near the workstation. Wherever possible, use engineering controls such as process isolation or enclosure, process/equipment changes to minimize the potential for release or contact, and properly designed ventilation systems to control the source of hazardous materials.

### Personal protective equipment

**Eye/face protection:** Safety goggles with side shields compliant with EN 166. Use equipment tested and approved under official standards such as NIOSH (US) or EN 166 (EU) for eye protection.

**Skin protection:** Wear gloves; inspect gloves before use. Remove gloves using proper technique (without touching the glove's outer surface) to avoid any skin contact with this product. Dispose of contaminated gloves carefully in accordance with applicable laws and effective laboratory procedures. Wash and dry hands. Selected protective gloves must comply with Regulation (EU) 2016/425 and the specifications set out in EN 374 and its derivatives.

**Body protection:** Impervious clothing. The type of protective equipment must be selected according to the concentration and quantity of hazardous materials present at the specific workplace.

**Respiratory protection:** If exposure to a harmful atmosphere is possible, use a P95 (US) or P1 (EU/UK EN 143) particulate respirator. For higher protection, use an OV/AG/P99 (US) or ABEK-P2 (EU/UK EN 143) cartridge. Use respirators and components tested and approved under government standards such as NIOSH (US) or CEN (EU).

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls:** If it is safe to do so, take measures to prevent further leakage or spillage. Do not allow the product to enter drains or sewers. Avoid release to the environment. Notify local authorities if a large spill cannot be controlled.

#### Information on basic physical and chemical properties

Appearance and physical state	Solid particles
Odor	No data available
Odor threshold	No data available
pH	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Vapor density	No data available
Density / relative density	No data available
Water solubility	No data available
Partition coefficient (n-octanol/water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

Remarks: The above information is for reference only.

#### IX. Physical and Chemical Properties

#### X. Stability and Reactivity

**Stability:** Stable under the recommended storage conditions.

**Hazardous reactions:** None expected during normal handling.

**Conditions to avoid:** No data available.

**Incompatible materials:** Strong acids, strong bases, strong oxidizing agents.

**Hazardous decomposition products:** Carbon oxides, nitrogen oxides, sulfur oxides.

**Other decomposition products:** No data available.

#### XI. Toxicological Information

**Acute toxicity:** Data not available.

**Skin corrosion/irritation:** Data not available.

**Serious eye damage/eye irritation:** Data not available.

**Respiratory or skin sensitization:** Data not available.

**Germ cell mutagenicity:** Data not available.

**Carcinogenicity:** Data not available.

**Reproductive toxicity:** Data not available.

**Specific target organ toxicity - single exposure (STOT-SE):** Data not available.

**Specific target organ toxicity - repeated exposure (STOT-RE):** Data not available.

**Aspiration hazard:** Data not available.

## XII. Ecological Information

**Ecotoxicity:** Data not available.

**Persistence and degradability:** Data not available.

**Bioaccumulative potential:** Not expected to be bioaccumulative.

**Mobility in soil:** Data not available.

**Other adverse effects:** Data not available.

## XIII. Disposal Considerations

### Waste treatment methods

**Product:** Reuse/recycle whenever possible. If recycling is not feasible, hand over to a licensed disposal company. Do not dispose of this material by discharging to sewers.

**Contaminated packaging:** Dispose of as unused product.

## XIV. Transport Information

**UN number:** No data available.

**UN proper shipping name:** No data available.

**Transport hazard class(es):** No data available.

**Packing group:** No data available.

**Packing method:** Package according to the manufacturer's recommendations.

**Marine pollutant:** No data available.

**Special precautions:** -

**Incompatible materials:** Strong acids, strong bases, strong oxidizing agents.

## XV. Regulatory Information

**Safety, health and environmental regulations specific for the substance or mixture - Applicable regulations**

### Occupational Disease Prevention Law of the People's Republic of China

Catalogue of Occupational Disease Hazard Factors: Not listed.

### Regulations on the Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals (2018): Not listed.

### Measures for Environmental Management Registration of Hazardous Chemicals

Catalogue of Hazardous Chemicals under Priority Environmental Management (2014): Not listed.

### Regulations on the Administration of Narcotic Drugs and Psychotropic Substances

Catalogue of Narcotic Drugs (2013): Not listed.

Catalogue of Psychotropic Substances (2013): Not listed.

### Other provisions

Please note that waste disposal must also comply with local regulations.

## XVI. Other Information

**Statement:** This Safety Data Sheet has been prepared based on the information currently available to our company. Although certain hazards are described herein, we do not warrant that these are the only hazards. Users should, in light of actual conditions, develop their own safe operating procedures with reference to the above data and comply with current laws and regulations. The data in this Safety Data Sheet are provided for safety reference only and do not constitute a product specification.