

Bnitril NS-3

Section 1 Chemical Product and Company Identification

Product name: Bnitril NS-3 Lipophilic Boron Nitride
Product English name: Bnitril NS-3
Supplier: Jiangxi KingPowder New Material Co., Ltd.
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The recommended use and limitation use of the products: Use for industrial product.

Section 2 Hazards Identification

Summary of emergency situation:

White powder, odorless, not flammable. Avoid inhalation, avoiding contact with your eyes and skin. If excessive exposure or inhalation, emergency measures and medical treatment should be taken.

GHS hazards classification: no hazard classification.

Physical and chemical hazards: Harmless.

Human health hazards: Direct contact with the skin may cause skin irritation.
 Eye contact may cause eye irritation.
 Excessive inhalation may cause respiratory irritation.

Environmental hazards: Harmless.

Section 3 Composition/Information on Ingredients

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name (INCI Name)	Concentration, %
Boron Nitride	97-99
Silane	1-3

Section 4 First Aid Measures

Summary of measures:

Inhalation: Move the victim to the fresh air and keep breathing comfortably. If breathing is difficult, carry oxygen. If still feel uncomfortable, seek medical attention.

Skin contact: If contact, wash the affected skin with soap and water. If an allergy symptom occurs or continues, seek medical attention immediately. Remove the contaminated clothing, shoes, dispose of contaminated clothing before use again.

Eye contact: If touch your eyes, immediately wash your eyes with water for a few minutes. If possible, check and remove contact lenses, and then continue to rinse the eyes. If necessary, seek medical attention immediately.

Ingestion: Rinse thoroughly with water and prevent vomiting. If you feel uncomfortable, seek medical attention.

Acute and delayed effects:

Direct contact with the skin may cause skin irritation. Eye contact may cause eye irritation. Excessive inhalation may cause respiratory irritation.

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The self-protection of the rescuers:

When entering the scene of the accident, wear protective gloves, protective masks and goggles. Rescuers should avoid inhaling and contamination. Inform the medical staff of the material involved and take precautions to protect themselves. Remove the contaminated clothing and shoes as soon as possible, dispose of contaminated clothing before use again. If necessary, seek medical attention immediately.

To the doctor's advice:

Provide general support and treatment according to the symptoms. Once the victim has short breath, take oxygen. Keep the victim warm and give observation, symptoms may be delayed.

Section 5 Fire-Fighting Measures

Suitable extinguishing media and method:

The product is not flammable, choose a suitable fire extinguisher based on the surrounding environment and circumstances.

Unsuitable extinguishing media and method:

The product is not flammable, confirm the unsuitable fire extinguisher based on the surrounding environment and circumstances.

The special danger of the material: Not available

Special extinguishing methods and special protective equipment for fire protection personnel:

The fire person must wear a respirator, wear a full-body fire suit, including fire boots, fire protection, fire protection gloves, fire helmet, and put out the fire in the direction of the wind. Isolated accident scene, don't allow the irrelevant person to enter. Collect and deal with the fire water, prevent environmental pollution.

Section 6 Accidental Release Measures

Operation personnel protection measures:

Wear suitable personal protective equipment and provide good ventilation. Avoid producing and inhaling dust, avoid contact with skin and eyes. According to the scene of the accident, Evacuate the irrelevant personnel to safe areas.

Environmental protection measures:

Take precautions to prevent the chemicals from entering the environment. If leaking into the drainage/aquatic environment, local authorities should be notified. Under safe conditions, take measures to prevent further leaks or spills. Prevent spills from entering sewers, surface waters and ground water. If it affects the drinking water environment for nearby residents, please inform the nearby residents not to use the water resources at that time.

Methods for containment and cleaning up:

Sweep up and put it into a container for disposal. Avoid producing dust. Flush the leaking position with a lot of water.

The preventive measures to prevent the secondary hazards:

Clean up the spills in time, avoid another leak.

Section 7 Handling and Storage

Operation disposal:

Technical measures: There is no specific suggestion.

Partial or total ventilation: Operation disposal should be carried out in the areas with partial or total ventilation. Outdoor operation disposal can be doing in the direction of the wind as well as possible.

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Preventive measures: The operator shall be specially trained to follow the rules strictly. Wear proper breathing equipment in a poor ventilation. Avoid contact with skin, eyes and clothing. Smoking or eating is strictly forbidden in the workplace. Wash the hands after operation, remove contaminated clothing and protective gear before entering the dining area. When transporting must lightly unload with light packs, prevents the packing and the vessel damage. Empty containers may have residual. Provides the corresponding variety and quantity fire equipment and the divulging emergency handling equipment.

Safe operating instructions: For individual protection, see the section 8 of the MSDS.

Safe storage:

Technical measures: There is no specific suggestion.

Conditions for safe storage: Store in a dry, well-ventilated place. Keep away from incompatible substances and food. Keep the container closed when not in use. Storage area should be equipped with the leakage emergency treatment equipment and appropriate storage materials.

Incompatible substances: Oxidizing agent, strong acid, strong base.

Safety packaging materials: Stored in the original container.

Section 8 Exposure Controls and Personal Protection

Contact control:

Allowable concentration: Not available.

Engineering control: Use local ventilation or other engineering control measures to keep the air below the recommended exposure limit. Ensure the workplace have a safety bathing, washing eyes and body place, and a safety nursing location.

Individual protection equipment:

Respiratory protection: Wearing standard protective masks; Use a gas respirator in case of emergency.

Hand protection: Wear suitable protective gloves.

Eye protection: Suggest wearing chemical goggles.

Skin and body protection: Wear suitable protective clothing to prevent skin exposure.

Section 9 Physical and Chemical Properties

Appearance and properties: White powder.

Odour: Odorless.

pH: Not available.

Melting/freezing point: Not available.

Boiling point, initial boiling point and boiling range: Not available.

Flash point: Not available.

Autoignition temperature: Not available.

Lower Flammability Limited (%): Not available.

Upper Flammability Limited (%): Not available.

Lower Explosion Limited (%): Not available.

Upper Explosion Limited (%): Not available.

Vapour pressure: Not available.

Vapour density: Not available.

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Relative density: Not available.
Bulk density: Not available.
Solubility: Not available.
Partition coefficient (octanol/water): Not available.
Decomposition temperature: Not available.
Solubility (other): Not available.
Odor threshold: Not available.
Evaporation rate: Not available.
Flammability (solid, gas): Not flammable.
Explosive: Not explosive.

Section 10 Stability and Chemical Reactivity

Stability: The mixture is stable under the normal storage and handling conditions.
Possibility of a hazardous reaction: No dangerous reactions known under the normal handling conditions.
Conditions to avoid: Avoid direct sunlight, high temperature and humid air.
Incompatible substances: Oxidizing agent, strong acid, strong base.
Hazardous decomposition products: Not available.

Section 11 Toxicological Information

Pharmacokinetics, metabolism, and distribution: Not available.
Acute toxicity: Not available.
Skin irritation/corrosion: Not classified.
Eye irritation/corrosion: Not classified.
Respiratory or skin sensitization: Not classified.
Germ cell mutagenicity: Not classified.
Carcinogenicity: Not classified.
Reproductive toxicity: Not classified.
Specific target organ toxicity - One-time exposure: Not classified.
Specific target organ toxicity - Repeated contact: Not classified.
Aspiration hazard: Not classified.

Section 12 Ecological Information

Ecological Toxicity:
 Fish Not available.
 Daphnia Not available.
 Algae Not available.
Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.
Other adverse effects: Not available.

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Section 13 Disposal Consideration

The residual waste:

Deal with local regulations. Empty container or packing may retain some product residues, the material and its container must be in a safe manner waste disposal (see: abandoned guidance).

Contaminated packaging:

Empty containers should be sent to approved waste disposal sites for regeneration or treatment. There may be residual products within the container, so even the empty container should be aware of the label warning.

Local waste disposal regulations:

Recycle or install in sealed containers for disposal of specialized waste disposal. Dispose of the contents/containers according to the local/regional/national/international regulations.

Section 14 Transport Information

UN-Number: Not regulated.

United Nations Transport Name: Not regulated.

United Nations Hazard Classification: Not regulated.

Packaging category: Not regulated.

Marine pollutants (Yes/None): None.

Special precautions for user: See the section 8 of the MSDS.

Transportation considerations:

- The tank car used for transportation should have a grounded chain, and the slot can be provided with a barrier to reduce the shock and static electricity;
- The vehicle exhaust pipe for shipping the goods must be equipped with a fire suppression device, it is forbidden to use mechanical equipment and tools that produce sparks;
- It is strictly forbidden to mix with oxidizing agent and food chemicals;
- Protect against exposure, rain, high temperature during transportation. In the summer, it is best to transport in the morning or at night;
- Stay away from the fire, heat source and high temperature area during the stopover;
- Have a road transport, you must follow the prescribed route. Do not stay in populated areas and densely populated areas;
- It is forbidden to slip while the railway is transported;
- Transport vehicles should be equipped with the corresponding variety and quantity fire equipment and the divulging emergency handling equipment.

Section 15 Regulatory Information

Special regulations/legislation on the safety, health and environmental protection of substances and mixtures

Regulation Name	Detailed information	
China Regulation on the Safety Administration of Dangerous Chemical	Catalog of Hazardous Chemicals	Boron Nitride is not included; Silane is not included
	List of Hazardous Chemicals for Priority Management- SAWS	Boron Nitride is not included; Silane is not included

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China Regulations on Environmental Management for the First Import of Chemicals and the Import and Export of Toxic Chemicals	List of Toxic Chemicals Restricted to be Imported/Exported	Boron Nitride is not included; Silane is not included
China Provisions on the Environmental Administration of New Chemical substances	Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)	Boron Nitride is included; Silane is included

Considerations for downstream user:

The handling of this product and containers shall comply with relevant laws and regulations.

Section 16 Other Information

Indication of changes:

Base on version EN 1.0, we revised the product name.

Training instructions:

Not applicable.

Further information:

This information is based upon the present state of our knowledge. This MSDS has been compiled and is solely intended for this product.

Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this MSDS, or in combination with any other product or process, is the responsibility of the user.

Abbreviation:

MSDS: Material Safety Data Sheet

CAS: Chemical Abstracts Service

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

UN: United Nations

IECSC: Inventory of Existing Chemical Substances Produced or Imported in China

Disclaimer:

This MSDS is based on the best information we know about the safety and correct use of our products. But we cannot guarantee the timeliness and any other express or implied information, for these information, our company does not undertake any responsibility due to its use. Users should determine the best information for a specific purpose through their own investigation. Every user should read the instructions carefully before using the product. If you need more information to ensure accurate assessment, please contact our company.