SAFETY DATA SHEET
SODIUM HYPOPHOSPHITE

1. PRODUCT AND COMPANY IDENTIFICATION

Supplier: Taixing Jinyuan Specialty Chemical Co., Ltd.
Phone number: 
Fax number: 
Emergency phone number: 
Trade name: Taixing Jinyuan specialty Chemical Co., Ltd.

2. COMPOSITION/ INFORMATION ON THE COMPONENTS

CAS Number: 10039-56-2
EINECS Number: 231-669-9
Product not classified as dangerous

3. HAZARD IDENTIFICATION

PHYSICO-CHEMICAL EFFECTS
Health Effects – Inhalation
No data available for acute inhalation toxicity. May cause irritation of the nose, throat and respiratory tract.
There will be no significant signs or symptoms following exposure.

Health Effects – Ingestion
Low order of acute oral toxicity. There will be no significant signs or symptoms following exposure.

Health Effects– Skin
Low order of acute dermal toxicity. Not expected to cause significant skin irritation.
There will be no significant signs or symptoms following exposure.

Health Effects – Eyes
Dust may cause transient irritation by abrasion. There will be no significant signs or symptoms following exposure.

Environmental Effects
May cause significant adverse environmental impact if product reaches waterways.

4. FIRST AID MEASURES
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First Aid – Inhalation
Remove from exposure. Keep warm and at rest. Seek medical attention if you feel unwell.

First Aid – Ingestion
Wash out mouth with water. Keep warm and at rest. Seek medical advice.

First Aid – Skin
Wash skin with water. Remove contaminated clothing as washing proceeds. Contaminated clothing should be washed or dry-cleaned before re-use. Seek medical advice if irritation occurs.

First Aid – eyes
Wash out eye with plenty of water. Seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing media
Unsuitable Extinguishing Media
Special Hazards of Product
Protective Equipment for Fire-fighting
Use water spray, foam, dry chemical or carbon dioxide.
None known
May produce toxic fumes of phosphorus oxides and / or phosphine. (highly toxic and flammable gas)
Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spillages
Construct temporary dikes with any suitable inert material to prevent product spreading. Stop escape of material. Wearing personal protective equipment, shovel material into a container for recovery. If recovery is not possible, dispose of through an approved waste disposal facility according to local laws and regulations. Avoid creating a dust.

Personal Precautions
Wear appropriate protective clothing. See section 8.

Environmental Precautions
Try to prevent the material from entering drains or watercourses. Advise Authorities
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if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

7. HANDLING AND STORAGE

Handling
Avoid inhaling dust. Avoid contact with eyes, skin and clothing.
Wear appropriate protective clothing. See section 8.

Storage
Storage area should be: cool. Dry. Away from oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Standards
No occupational exposure limit listed in current editions of EH40 (UK Health and safety Executive or Threshold Limit Values (American Conference of Governmental Industrial Hygienists.))

Total inhalable dust: UK EH40: 10 mg/m$^3$ 8 h TWA
Reparable dust: UK EN40: 4 mg/m$^3$ 8h TWA

Engineering control measures
Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions. If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal protective equipments for the selection, training, inspection and maintenance of this equipment. Wear impermeable safety footwear and industrial safety helmet. The following protection is recommended:

<table>
<thead>
<tr>
<th>Respiratory Protection</th>
<th>Respiratory protection not normally required.</th>
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</thead>
<tbody>
<tr>
<td>Hand Protection</td>
<td>PVC gloves</td>
</tr>
<tr>
<td>Eye Protection</td>
<td>Safety spectacles.</td>
</tr>
<tr>
<td>Body Protection</td>
<td>Protective overalls and safety shoes/boots</td>
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</tbody>
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state
Color
### Odor and PH
- **Odor:** White
- **PH:** None

### Melting and Flash Points
- **Melting point:** 5.1 – 6.5 at 50% w/w in water
- **Flash point:** Not applicable

### Solubility and Density
- **Solubility in water:** >500 at 20°C
- **Density:** 800 – 900 kg/m³

### Stability and Reactivity
#### Stability
Stable under normal conditions.

Decomposes violently at temperatures above 200°C.

#### Conditions to Avoid
May produce explosive mixtures with strong oxidizing agents. Decomposes in hot alkaline solutions to give off phosphine.

#### Material to Avoid
- Alkalis. Strong oxidizing agents.

#### Hazardous Decomposition Products
Combustion will generate: phosphine. (highly toxic and flammable gas)

### Toxicological Information
#### Acute Toxicity
- **Oral LD50 (rat):** >2000mg/kg.

#### Irritation – Inhalation
May cause irritation to the nose, throat and respiratory tract.

#### Irritation – Skin
Not expected to cause significant skin irritation.

#### Irritation – Eyes
Not expected to cause significant eye irritation.

### Ecological Information
Ecological Overview
No specific test data available.
May cause significant adverse environmental impact if product reaches waterways due to its powerful reducing action.

13. DISPOSAL

Product Disposal
Where practical, waste or surplus material should be recovered and recycled. Dispose of in accordance with all applicable local and national regulations. Seek advice from local waste authority or contact Taixing Jinyuan specialty chemical co., Ltd for guidance.

Container disposal
Labels should not be removed form, containers until they have been cleaned. Where practical, containers and packaging should be recycled by a licensed contractor.

14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS
Land
-Rail/road(RID/ADR) NOT restricted.
-Sea(IMO/IMDG) NOT restricted.
-Air(ICAO-IATA) NOT restricted.

15. REGULATORY INFORMATION

NECS Number 231-669-9
Product not classified as dangerous for supply

16. OTHER INFORMATION

Disclaimer
The information contained in this document is intended to describe the product only in terms of health, safety and environmental requirements for the purposes of its safe handling, use and disposal and is to the best of Taixing Jinyuan specialty chemical co., Ltd. 's technical services will be pleased to give further advice and assistance, but customers must satisfy themselves (by appropriate testing if necessary) that the product is suitable for their purposes and conditions of use and that their facilities and arrangements are suitable for handling or using the product.
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