

MATERIAL SAFETY DATA SHEET (MSDS)

SODIUM HYPOPHOSPHITE

1. PRODUCT AND COMPANY IDENTIFICATION

- * Supplier: Taixing Jinyuan specialty Chemical Co., Ltd.
- * Phone number: +86-523-87679668
- * Fax number: +86-523-87679113
- * Emergency phone number: +86-523-87679558
- * 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

➔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

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- ✧ 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 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/m³ h TWA

 Respirable dust: UK EN40: 4 mg/m³ 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:

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Respiratory Protection

Respiratory protection not normally required.

Hand Protection

PVC gloves

Eye Protection

Safety spectacles.

Body Protection

Protective overalls and safety shoes/boots

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Melting point (°C)
Color	Flash point (PMCC) (°C)
Odor	Solubility in water (kg/m ³)
PH	Powder
White	200
None	Not applicable
5.1 – 6.5 at 50% w/w in water	>500 at 20°C
Density (kg/m ³)	800 – 900
Auto-flammability (deg C)	200
Decomposition Temp. (°C)	200

10. 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)

11. 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

12. ECOLOGICAL INFORMATION

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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 from 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. |

The goods is not hazardous for sea transport subject to IMO IMDG CODE

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. Accordingly Taixing Jinyuan specialty chemical co., ltd. disclaims any liability for loss, injury or damage which may result from the use of the product, this information or from such advice and assistance save as may be expressly agreed under its terms of sale. This information does not comprise technical or specification issued by Taixing Jinyuan Customers are also reminded that there may be uses or application for the product that are protected by Taixing Jinyuan specialty chemical co., ltd.

END OF MSDS DOCUMENT.