Material Safety Data Sheet

This MSDS is authoring based on the data supplied by and identified on behalf of the client.

Sample Name:	Titanium alloy powder
Client Name:	Guangzhou Moli Stage Equipment Co., Ltd.
Client Address:	Room 501, Building N, No. 46 Shangsheng East Street, Wanggang, Baiyun District, Guangzhou, China.
MSDS No.:	2025011553E
Issue Date:	January 15, 2025

Signed for and on behalf of
JINHUA HEBIAO GHS AND MSDS SERVICES FIRM

Approved signator: David Chen

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Material Safety Data Sheet

1. Identification of the Substances/Preparation and of the Company/Undertaking

Product Identification:

Product Name: Titanium alloy powder
Product model: HF-200
Trademark: MOKA SFX

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Stage Bubble Oil.
Use advised against: No data available.

Details of the Manufacture or supplier

Supplier: Guangzhou Moli Stage Equipment Co., Ltd.
Address: Room 501, Building N, No. 46 Shangsheng East Street, Wanggang, Baiyun District, Guangzhou, China.
Telephone: +86-18998818260
Fax: +86-20-37412409
Email: info@mokasfx.com

Emergency telephone number

Emergency Telephone: +86-18998818260

2. Hazards Identification

Classification of the substance or mixture

This product is not classified as hazardous according to the GHS (The Globally Harmonized System of Classification and Labelling of Chemicals).

GHS Label elements

Pictogram(s): No pictogram is used.

Signal Word: No signal word is used.

Hazard Statement: No hazard statement.

Precautionary statements： No applicable.

Description of any hazards not otherwise classified

Contacting with acid and Strong base can produce hydrogen. Can form an explosive mixture with air reaching a certain concentration.

3. Composition/Information on Ingredients

Chemical Characterization

Mixture. Consist of the following ingredients.

Composition:

Ingredients	CAS No.	Content（%w/w）
Zirconium	7440-67-7	20%
Titanium	7440-32-6	75%
Titanium dioxide	13463-67-7	5%

4. First-Aid Measures

Description of first aid measures:

Inhalation: If dust exists, Remove to fresh air and keep at rest in a position comfortable for breathing. Contact a physician if discomfort.

Skin Contact: Wash off with soap and plenty of water.

Eye Contact: If dusts get in eyes, Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. If irritation persists, obtain medical advice.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Obtain medical advice.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: Use sand or dry chemical.

Unsuitable extinguishing media: DO NOT USE WATER or wet substance, foam or CO2..

Special hazards arising from the substance or mixture

Fine powder easily burn, and sometimes spontaneous combustion and explosion. Irritating and toxic gases may be generated by thermal decomposition or combustion.. - Titanium oxide, aluminum oxide,

and toxic vanadium oxide.

Advice for firefighters

Evacuate personnel to safe areas. As in any fire, Wear self-contained breathing apparatus and full protective gear for firefighting. Firefighting from upwind.

Further information

No data available.

6. Accidental Release Measures

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

Personal precautions, protective equipment and emergency procedures:

Remove all ignitions. Prevent dust from forming. Do not touch or walk through spilled material; Do not inhale dust; Use appropriate protection equipment.

Environmental precautions:

Do not release into sewage system.

Methods and materials for containment and cleaning up:

Spills should be contained（use non-sparking tools or an inert gas scavenger) and recovered mechanically if possible. A suitable waste container should be used to contain spillage. When dealing with powders avoid generating dust and remove all sources of ignition.

7. Handling and Storage

Precautions for safe handling:

Operators must be specially trained to strictly observe the operating procedures. Use explosion-proof ventilation systems and equipment. Avoid contact with acids.

Wash thoroughly after handling. Do not eat, drink or smoke at the workplace.

In production processing, Prevent formation of dust and wear appropriate personal protective equipment to minimise exposure when handling powders. Store away from acids and oxidising agents.When handling powders take precautions to prevent the build-up of static electricity by earthing equipment/containers.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in cool, dry and well-ventilated area. Do not store together with strong oxidizing agent, acid, halogen.

8. Exposure Controls/Personal Protection

Exposure Limits: Not established.

Exposure controls

Engineering Control: General industrial hygiene practice. Use explosion-proof ventilation systems and equipment.

Personal protective equipment:

Respiratory Protection: Dust mask is recommended during normal handing. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eyes Protection: Use face shield and safety glasses if in-eye risk exists. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body Protection: Anti-static overalls.

Hands Protection: Suggest wear suitable protective gloves to avoid skin exposure.

Other Protections: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance	Powder.
Color	Gray.
Odor	Weak odor.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not applicable as not a liquid.
Evaporation rate	Not applicable as not a liquid.
Flammability	Not flammable.
Explosive limit %(V/V)	Can form explosive dust-air mixtures when finely dispersed in air.

Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and Reactivity

Stability: Stable under normal storage temperature and pressure.

Conditions to Avoid: Flames and mars.

Incompatible materials: Strong oxidizing agents, acid, halogen.

Hazardous Decomposition Products: Other decomposition products- no data available. In the event of fire:see section 5.

Possibility of hazardous reactions: Titanium dust is explosive meeting heat, open fire or chemical reaction. Its powder has high chemical activity, can spontaneous combuste in the air. Titanium can not only burn in the air, but also in carbon dioxide, nitrogen. Easy to react with halogen, oxygen, sulfur, nitrogen in high temperature.

11. Toxicological Information

Acute Toxicity:	No data available.
Skin Corrosion/Irritation:	Based on available data, the classification criteria are not met.
Serious Eye Damage/Eye Irritation：	Based on available data, the classification criteria are not met.
Respiratory or Skin Sensitization	No sensitizing effects known.
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity：	None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA.

Reproductive Toxicity：	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System):	Based on available data, the classification criteria are not met.
Aspiration Hazard:	Based on available data, the classification criteria are not met.
Potential Health Effects:	
Inhalation:	Inhaling dust may cause respiratory irritation..
Skin Contact:	No irritating effect except possible mechanical stimulation.
Eye Contact:	No irritating effect except possible mechanical stimulation.
Ingestion:	Not a route of exposure. May be harmful if ingested.

12. Ecological Information

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No bioaccumulative potential

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

Do not release into sewage system.

13. Disposal Considerations

Waste treatment methods

Product

Recycle if possible. Offer surplus and non-recyclable products to a licensed disposal company.

Observe according to the national and local related regulations.

Contaminated packaging

Contaminated containers should be treated in the same way as the chemical product they contain.

14. Transport Information

ADR/RID Information

ADR-UN Number: Not regulated for transport
ADR-Class: Not regulated for transport
ADR-Shipping Name: Not regulated for transport
ADRPacking Group: Not regulated for transport

IATA/ICAO Information

The product is not subject to IATA DGR.
IATA-UN Number: Not regulated for transport
IATA-Class: Not regulated for transport
IATA-Shipping Name: Not regulated for transport
IATA-Label: None
IATA-Packing Group: Not regulated for transport
IATA-S.P.: None
IATA-ERG: None

IMO/IMDG Information

The product is not subject to IMO/ IMDG Code.
IMDG-Marine Pollutant: No
IMDG-UN Number: Not regulated for transport
IMDG-Class: Not regulated for transport
IMDG-Shipping Name: Not regulated for transport
IMDG-Packing group: Not regulated for transport
IMDG-Storage Category: Not regulated for transport

15. Regulatory Information

International Regulations

Safety, health and environmental regulations/legislation specific for the substance or mixture

No information available.

Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. Other Information

Further Information:

·This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

·This safety data sheet was prepared in accordance with Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Rev.10.

Department Issuing MSDS: Guangzhou Moli Stage Equipment Co., Ltd.

Issue Date: January 15, 2025

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