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Material Safety Data Sheet

1 Identification of the substance/preparation and of the company/undertaking

.Product details

.Trade name: Inorganic sunscreen

. Trade code: NT-200B

.Application of the substance: Cosmetic

.Manufacturer/Supplier: Jiangsu Hehai Nanometer Science & Technology Co.,Ltd

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Contact: Xu Binhai

2 Composition/information on ingredients

.Chemical characterization

.Dangerous Components: None

.Description: Onefold of substances listed below

Components Number	CAS Number	Weight Percent(%)
Titanium dioxide	13463-67-7	≥ 86
Silicon dioxide	7631-86-9	≤ 6
Aluminum Oxide	1344-28-1	≤ 3
Dimethicone	9016-00-6	≤ 5

3 Hazards identification

.Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant),of eye contact (irritant),of ingestion, of inhalation.

.Potential Chronic Health Effects

.Carcinogenic effects: Not available.

.Mutagenic effects: Not available

.Teratogenic effects: Not available

.Developmental toxicity: Not available

The substance is toxic to lungs ,mucous membranes.



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Repeated or prolonged exposure to the substance can produce target organs damage.

Skin contact may cause inflammation and ulcers. Occasional allergic reactions.

4 First aid measures

Persons using these products should consult a physician or other medical professional if an accident involving these products in injury. Specific first-aid measures are as follows :

.Eye Contact: Immediately pull up the eyelid, flush eyes with plenty of water for at least 15 minutes . Cold water may be used. WARM water MUST be used. Get medical attention if irritation occurs.

.Skin Contact: Take off contaminated clothing and wash skin with soap and water .Cover the irritated skin with an emollient .Get medical attention if irritation develops.

.Inhalation: If inhaled, remove to fresh air: If not breathing, give artificial respiration. If breathing is difficult, give oxygen Get medical attention..

.Ingestion :Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed , Gargle with water to drink milk or egg white and call a physician immediately. Loosen tight clothing such as a collar ,tie belt or waistband.

.Effects of Overexposure-Chronic :None Known.

5 Fire –fighting measures

.Extinguishing Media:CO₂;foam;dry chemical and water spray.

.Special Fire Fighting Procedures: Structural firefighters must wear self-contained breathing apparatus and full protective equipment. Spraying water to keep containers cool and to spray water to protect plugging personnel plugging.

.Unusual Fire and Explosion Hazards: If involved in a fire ,these products may ignite or decompose.Products of thermal decomposition can include produce toxic gases (e.g. carbon oxides CO) .

.Explosion Sensitivity to Mechanical Impact :Not applicable.

.Explosion Sensitivity to Static Discharge: Not applicable.

.Explosion Hazards in Presence of Various Substances :

6 Accidental release measures

.Release Response :Due to the nature of these products. no special accidental release measures are normally requirement. Uncontrolled release involving other materials released near these products should be responded to by appropriately trained personnel using preplanned procedures.

.Measures for environmental protection:

Do not allow product to reach sewage system or any water course .

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.



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.Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

.Large Spill: Use a shovel to put the material into a convenient waste disposal container .Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities .

7 Handling and storage

.Handling :

.Information for safe handling :

Handling of soft enzyme may form nuisance dust .Protect personnel.

Pneumatic material handling and processing equipment may generate dust of sufficiently small particle size that, when suspended in air, may be explosive. Dust accumulations should be controlled through a comprehensive dust control program that includes, but is not limited to, source capture, inspection and repair of leaking equipment, routine housekeeping and employee training in hazards. See NFPA 654.

.Storage :Stored in a cool, ventilated warehouse. Away from fire, heat source. Treasury temperature dose not exceed 30°C, relative humidity of not more than 85%. Keep container sealed. With oxidants, bases, reactive metal powders are kept separately and avoid mixing reservoir. Corresponding with the number of species and fire equipment. Storage area should be equipped to deal with spill response equipment and materials suitable host.

8 Exposure controls/personal protection

.Ventilation and Engineering controls:

Confined production processes to enhance ventilation. To provide a safe shower and eyewash equipment.

.Respiratory Protection : May come into contact with the steam, it is important to wear a gas mask.filter self-absorption(full cover) or long-tube suction mask. Emergency rescue or evacuation, it is recommended to wear air respirator.

.Body Protection : No special protective clothing is required.

.Protective Gloves:

Rubber or plastic acid-resistant gloves with elbow-length gauntlet.

.Eye Protection:

Chemical goggles or face shield .

9 Physical and chemical properties

.General Information

Form:

Powder



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Color:	White
Odor:	No
.Change in condition	
Melting point/Melting range:	>1500 °C
Boiling point/Boiling range:	Not available
Flash point:	Not applicable
Self-igniting :	Product is not self-igniting
Danger of explosion:	Not available
Density :	Not available
Relative density :	3.5 (water=1)
Vapor density :	Not available
Evaporation rate	Not available
.Solubility in/Miscibility with	
Water :	Not miscible or difficult to mix
PH-Value	
.Viscosity :	
Dynamic:	Not available

10 Stability and reactivity

.Chemical Stability: Stable under normal temperatures and pressures.

.Decomposition Products: Products of thermal decomposition can include produce toxic gases (e.g. carbon oxides CO)....

.Materials with which substance is incompatible: None known.

.Hazardous Polymerizations: will not occur.

.Conditions to Avoid : Avoid exposure or contact to extreme temperatures, incompatible chemicals.

11 Toxicological information

.Routes of Entry: Not available.

.Toxicity to Animals:

LD50: Not available.

LC50: Not available.

.Chronic Effects on Humans: Causes damage to the following organs: lungs, mucous membranes.

.Other Toxic Effects on Humans: Slightly hazardous in case of skin contact(irritant),of ingestion, of inhalation.

.Special Remarks on Toxicity to Animals: Not available.

.Special Remarks on Chronic Effects on Humans: Not available.

.Special Remarks on other Toxic Effects on Humans: Not available.



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.Section 12: Ecological Information

12 Ecological information

.Ecotoxic effects: Not expected to be acutely toxic. But it is harmful if ingested by animals and aquatic life. Because of high molecular weight and hard decomposition will remain in the soil and sink in the water .accumulation and sedimentation will occur.

.Persistence and degradability: Sun light may cause surface degradation. It is expected to be inert in the environment and not to bio gradate.

.Other adverse effects: Not expected to be acutely toxic. But it is harmful if ingested by animals and aquatic life.

13 Disposal considerations

.Recycle if possible. Dispose product according tp national/regional regulation in force. Send to authorized disposal plants or to authorize condition incinerators. Contaminated packaging may be recycled or disposed; in this case the receiver must be informed of potential hazards.

.Waste Disposal Methods: When no longer needed ,these articles may be disposed of as permitted by local waster handling authority.

.U.S.EPA waste number : Not applicable.

14 Transport information

.DOT Classification for Bulk Shipments (non bulk shipments may differ): Not a DOT controlled material (United States)。

.Hazard class number and description : Not applicable.

.Packing Group: Z01

.UN Identification: Not applicable.

.U.S.DOT: Not applicable.

.North American Emergency response guidebook number, 2000: Not applicable.

.Marine Pollutant: No component of these products is designated as a Marine Pollutant, per Appendix B to 49 CFR 172. 101

.Transport transportation of dangerous goods regulations: Rail transport should be in strict accordance with the Ministry of Railway ,“the rules of the Transport of Dangerous Goods” in the loading of dangerous goods loading table. When the integrity of the packaging to shipment, loading should be safe. During transport to ensure that the containers do not leak, do not collapse, did not fall ,do not damage. Is prohibited with oxidants, bases, reactive metal powders, food chemicals, such as mixed delivery. Transportation vehicles should be equipped with the corresponding species and the number of emergency fire equipment and processing equipment leakage. Exposure to anti-transit, rain, anti-high temperature. Highway transportation routes in accordance with the provisions of, not in residential areas and densely populated areas to stay.



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15 Regulatory information

.Sara reporting requirements: Not applicable as an article. The components of these products do not have requirements as pure compounds; if dusts from the product are produced, SARA requirements may be applicable.

.Sara threshold planning quantity: There are no specific threshold planning quantities for the components of these products. None of the ingredients is listed.

.TSCA (Toxic substances Control ACT):There are articles and are not subject to the requirements of TSCA.

.California Safe drinking water and toxic enforcement act (Proposition 65): No component of these products is on the proposition 65 lists.

16 Other information

The contents and format of this MSDS are in accordance with EEC Commission Directive 2001/58/EC, 1999/45/EC,1967/548/EEC.

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handing, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may be applicable.

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