

**Stearamide**  
**MSDS**

**Jiangxi Zhilian New Materials Co., Ltd.**



## MATERIAL SAFE DATA SHEET

Jiangxi Zhilian New Materials Co., Ltd.

2021.3.5

Product Name: Stearamide

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### 1 Product and company Identification

**Chinese Name:** 硬脂酸酰胺

**English Name:** Stearamide

**Structural formula:**  $C_{18}H_{37}NO$

**Molecular formula:** 283.49

**CAS No:** 124-26-5

**Risk Code:** R36/37/38 (Slightly irritating to eyes, respiratory tract and skin)

**Manufacturer:** Jiangxi Zhilian New Materials Co., Ltd

**Address :** No. 6 Industrial Road, Industrial Park, YongFeng County, Ji'An City  
Jiangxi Province, China

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### 2 Main composition, Traits and Uses

**Appearance and traits:** White granules or powder.

**Physical and chemical properties:** Insoluble in water, slightly soluble in organic solvents at room temperature. It can improve the dispersion effect of dyes and pigments, has good affinity and adhesion, has lubricity and mold release, and has no hygroscopicity.

**Applications:**

It can be used as a slip agent and release agent for plastics such as rubber, cables, shoe materials, PVC, polyolefin, polystyrene, melamine resin, etc., which can give the product good appearance performance and improve the dispersion effect of the colorant. This product is also an ideal coating additive. It can also be used as a softener raw material for textiles.



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### 3 Risk Overview

This product is non-toxic and non-hazardous. Due to its small particle size, the powdered product may cause slight irritation to the eyes, respiratory tract and skin.

**Health hazards:** At present, no information on occupational poisoning has been reported.

**Environmental hazard:** no data

**Explosion hazard:** Flammable at high temperatures.

### 4 First Aid Measures

**Skin contact:** Remove contaminated clothing and rinse immediately with running water.

**Eye contact:** Lift eyelids and rinse with running water or saline. Seek medical attention.

**Ingestion:** Give enough warm water, induce vomiting, and seek medical attention.

**Inhalation:** quickly leave the scene to a place with fresh air.

### 5 Fire-fighting Measures

**Dangerous characteristics:** It is combustibile in case of open flame and high heat.

**Hazardous combustion products:** Carbon monoxide, carbon dioxide, nitrogen oxides.

**Special contact hazards:** Do not contact with strong oxidants.

**Fire fighting method:** firefighters must wear gas masks and full-body fire fighting



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clothes, and put out the fire in the upwind direction.

**Extinguishing agent:** water mist, foam, dry powder, carbon dioxide and sand.

## 6 Leakage Emergency Treatment

Isolate the contaminated area and restrict access. Cut off the fire source. It is recommended that emergency response personnel wear dust masks (full face masks) and wear protective clothing. Mix it with sand, dry lime or soda ash, sweep it up carefully, and cover it with plastic sheeting or canvas if it leaks a lot. Collect and recycle or transport to waste disposal sites for disposal.

## 7 Handling and Storage

### **Operation notes:**

Airtight operation, local exhaust. Operators must undergo special training and strictly abide by operating procedures. It is recommended that operators wear self-priming filter dust masks, chemical safety glasses, anti-poison penetration work clothes, and rubber gloves. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. Avoid generating dust. Avoid contact with oxidants. Please load and unload lightly during transportation to prevent damage to packaging and containers. Equipped with corresponding types and quantities of fire-fighting equipment and leakage emergency treatment equipment. Empty containers may be harmful residues.

### **Precautions for storage:**

Store in a cool, ventilated warehouse. Keep away from fire and heat sources. should be kept away from oxidizer, do not store together. Equipped with the appropriate variety and quantity of fire equipment. The storage area should be equipped with suitable materials to contain the leakage.



## 8 Protective Measures

**Workshop hygiene standards:**

**China MAC (mg/m<sup>3</sup>):** No standard established

**Russia MAC (mg/m<sup>3</sup>):** no standard

**US TVL-TWA:** no standard

**US TLV-STEL:** no standard

**Engineering control:** airtight operation, local exhaust.

**Respiratory system protection:** When the concentration of dust in the air exceeds the standard, you must wear a self-priming filter dust mask. During emergency rescue or evacuation, air respirators should be worn.

**Eye protection:** wear chemical safety glasses.

**Body protection:** wear protective overalls.

**Hand protection:** wear rubber gloves.

**Other protection:** smoking, eating and drinking are prohibited at the work site. After work, take a shower. Maintain good hygiene habits.

## 9 Physical and Chemical Properties

**Flash point (°C):** 150°C

**Melting point (°C):** 98-103°C

**Boiling point(°C):**250°C

**Lower explosion limit (%):** no data

**Upper explosion limit (%):** no data

**Relative vapour density (air = 1):** No data available.

**Saturated air pressure:** no data

**Heat of combustion (kJ/mol):** no data available

**Critical temperature T<sub>c</sub> (°C):** no data



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**Critical pressure Pc (Mpa):** no data

**Solubility (solubility g/100g):** It is soluble in hot ethanol, chloroform and ether, but hardly soluble in cold ethanol.

### 10 Stability and Reactivity

**Stability:** Generally stable.

**Risk of aggregation:** no aggregation

**Conditions to avoid contact:** Avoid dust accumulation in the space, keep away from heat sources, and avoid contact with fire sources.

**Contraindication:** Strong oxidants.

### 11 Toxicological Information

**Acute toxicity:**

**LD50:** No data

**LC50:** No data

### 12 Ecological Information

**Other harmful effects:** no data

### 13 Discard

Refer to relevant national and local laws and regulations before disposal, and it is recommended to use incineration for disposal. The nitrogen oxides removed from the incinerator are removed by scrubbers.

### 14 Transport Information

**Transportation:** It is a non-hazardous chemical and is stored and transported in accordance with general chemical regulations.

**Packing method:** Packed in plastic lining compound bag, net weight 20Kg or 25Kg per bag.

**Transportation precautions:** The packaging should be complete at the time of



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shipment and the loading should be secure. During transportation, ensure that the container does not leak, does not collapse, does not fall, and is not damaged. It is strictly forbidden to mix and transport with oxidants and food chemicals. During transportation, it should be protected from exposure, rain and high temperature. The transport vehicle must be thoroughly cleaned.

## 15 Regulatory Information

**Regulatory Information:** Regulations for the Safety Management of Chemical Dangerous Goods (promulgated by the State Council on February 17, 1987), Regulations for the Administration of Chemical Hazardous Materials Safety Regulations (Hua Fafa [1992] No. 677), Regulations for the Safe Use of Chemicals in the Workplace ([1996] Labor Department issued No. 423) and other regulations have made corresponding provisions on the safe use, production, storage, transportation, loading and unloading of chemical dangerous goods.

## 16 Other Information

**Writing department:** Production Technology Department

**Time:** March 5, 2021

**Data Verify Company:** Jiangxi Zhilian New Materials Co., Ltd