

# Nanping Jianyang Xinsheng Trading CO, .LTD

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## MSDS FOR AMMONIUM FLUORIDE

\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

**Note: this chemical is hazardous. Do not use without taking professional advice**

**MSDS Number:** HXMSDS-04

**Date of Issue:** 2022.01.01

### 1. Identification of substance

**Synonyms:** Ammonium Fluoride, Neutral ammonium fluoride

**Molecular Weight:** 37.04

**Chemical Formula:** NH<sub>4</sub>F

**CAS No.:** 12125-01-8

**UN NO.:** 2505

**Manufacturer/Supplier:** Nanping Jianyang Xinsheng Trading Co., Ltd.

**ADD: No. 529, Jiahe North Road, Jianyang District, Nanping City (Office 313, Building 1, Jianyang Station Front Pedestrian Street), Fujian, China**

**Post Code: 354200**

**E-mail:** npjyxs20@126.com

**Emergency information:**

### 2. Composition/Data on component

#### Ammonium Bifluoride

Chemical Entity	CAS No	Proportions(%)	EINECS#	Hazardous
AMMONIUM FLUORIDE	12125-01-8	96%min	235-185-9	Yes

**Hazard Symbols:** T

**Risk Phrases:** 23/24/25

### **3. Hazards identification**

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#### **EMERGENCY OVERVIEW**

**Toxic by inhalation, in contact with skin and if swallowed. Hygroscopic.**

#### **Potential Health Effects**

**Eye:**

Contact with eyes may cause severe irritation, and possible eye burns.

**Skin:**

May cause deep, penetrating ulcers of the skin. May cause severe irritation and possible burns.

**Ingestion:**

May cause vascular collapse and damage. Causes severe digestive tract burns with abdominal pain, vomiting, and possible death. May cause hemorrhaging of the digestive tract.

**Inhalation:**

Causes delayed lung injury. May cause severe respiratory tract irritation.

**Chronic:**

Chronic inhalation and ingestion may cause chronic fluoride poisoning (fluorosis) characterized by weight loss, weakness, anemia, brittle bones, and stiff joints.

### **4. First-aid measures**

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**Eyes:**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:**

Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Discard contaminated clothing in a manner which limits further exposure.

**Ingestion:**

Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:**

Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen.

**Notes to Physician:**

## **5. Fire fighting measures**

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**General Information:**

Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

**Extinguishing Media:**

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

## **6. Accidental release measures**

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**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

## **7. Handling and storage**

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**Handling:**

Wash thoroughly after handling. Use with adequate ventilation. Do not get on skin or in eyes. Do not ingest or inhale.

**Storage:**

Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from water. Poison room locked. Keep away from acids. Keep away from strong bases.

## **8. Exposure controls / Personal protection**

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**Engineering Controls:**

Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

**Personal Protective Equipment**

**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:**

Wear appropriate gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

Follow the OSHA respirator regulations found in 29CFR1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**9. Physical and chemical properties**

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<b>Physical State:</b>	Crystalline powder
<b>Appearance:</b>	white
<b>Odor:</b>	odorless
<b>pH:</b>	Not available.
<b>Vapor Pressure:</b>	Negligible.
<b>Viscosity:</b>	Not available.
<b>Boiling Point:</b>	Not available.
<b>Freezing/Melting Point:</b>	Not available.
<b>Autoignition Temperature:</b>	Not available.
<b>Flash Point:</b>	Not available.
<b>Explosion Limits, lower:</b>	Not available.
<b>Explosion Limits, upper:</b>	Not available.
<b>Decomposition Temperature:</b>	>100 deg C
<b>Solubility in water:</b>	100G/100ML AT 20°C IN WATER
<b>Specific Gravity/Density:</b>	1.0090g/cm <sup>3</sup>
<b>Molecular Formula:</b>	NH <sub>4</sub> F
<b>Molecular Weight:</b>	37.04

**10. Stability and reactivity**

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**Chemical Stability:**

Stable.

**Conditions to Avoid:**

Incompatible materials, moisture, contact with water, excess heat.

**Incompatibilities with Other Materials:**

Acids, bases, water, Contact with water liberates highly flammable gases., glass.

**Hazardous Decomposition Products:**

Oxides of nitrogen, hydrogen fluoride, ammonia and/or derivatives.

**Hazardous Polymerization:** Has not been reported.

**11. Toxicological information**

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**RTECS#:**

CAS# 12125-01-8: BQ6300000

**LD50/LC50:**

Not available.

**Carcinogenicity:**

Ammonium fluoride -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

**12. Ecological information**

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**General notes:**

Do not allow material to be released to the environment without proper governmental permits.

**13. Disposal considerations**

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Dispose of in a manner consistent with federal, state, and local regulations.

**14. Transport information**

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**IATA**

Shipping Name: AMMONIUM FLUORIDE

Hazard Class: 6.1

UN Number: 2505

Packing Group: III

**IMO**

Shipping Name: AMMONIUM FLUORIDE

Hazard Class: 6.1

UN Number: 2505

Packing Group: III

**RID/ADR**

Shipping Name: AMMONIUM FLUORIDE

Hazard Class: 6.1

UN Number: 2505

Packing group: III

**15. Regulations**

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**European/International Regulations**

European Labeling in Accordance with EC Directives

**Hazard Symbols:** T

**Risk Phrases:**

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

**Safety Phrases:**

S1/2 Keep locked up and out of reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 In case of accident or if you feel unwell, seek medical advice immediately  
(show the label where possible).

WGK (Water Danger/Protection)

CAS# 12125-01-8: 1

### **United Kingdom Occupational Exposure Limits**

#### **Canada**

CAS# 12125-01-8 is listed on Canada's DSL List.

CAS# 12125-01-8 is not listed on Canada's Ingredient Disclosure List.

#### **Exposure Limits**

CAS# 12125-01-8: OEL-AUSTRALIA:TWA 2.5 mg(F)/m<sup>3</sup>

OEL-BELGIUM:TWA 2.5 mg(F)/m<sup>3</sup>

OEL-CZECHOSLOVAKIA:TWA 1 mg(F)/m<sup>3</sup>;STEL 5 mg(F)/m<sup>3</sup>

OEL-DENMARK:TWA 2.5 mg(F)/m<sup>3</sup>

OEL-FINLAND:TWA 2.5 mg(F)/m<sup>3</sup>

OEL-FRANCE:TWA 2.5 mg(F)/m<sup>3</sup>

OEL-GERMANY:TWA 2.5 mg(F)/m<sup>3</sup>

OEL-HUNGARY:TWA 1 mg(F)/m<sup>3</sup>;STEL 2 mg(F)/m<sup>3</sup>

OEL-THE NETHERLANDS:TWA 2.5 mg(F)/m<sup>3</sup>

OEL-THE PHILIPPINES:TWA 2.5 mg(F)/m<sup>3</sup>

OEL-POLAND:TWA 1 mg(F)/m<sup>3</sup>

OEL-RUSSIA:TWA 0.2 mg/m<sup>3</sup>;STEL 1 mg/m<sup>3</sup>

OEL-SWEDEN:TWA 2 mg(F)/m<sup>3</sup>

OEL-SWITZERLAND:TWA 1.8 ppm (1.5 mg(F)/m<sup>3</sup>);STEL 9.0 ppm

OEL-THAILAND:TWA 2.5 mg(F)/m<sup>3</sup>

OEL-TURKEY:TWA 2.5 mg(F)/m<sup>3</sup>

OEL-UNITED KINGDOM:TWA 2.5 mg(F)/m<sup>3</sup>

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

#### **US FEDERAL**

TSCA

CAS# 12125-01-8 is listed on the TSCA inventory.

## **16. Other information**

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### **Department of making out:**

### **Department of looking through:**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.