

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

### Identification of the product

Ammonium hydrogen fluoride

### Manufacturer/supplier identification

Company: Guangdong Guanghua Sci-Tech Co.,Ltd

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## 2. Hazards identification

### Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 3)

Skin corrosion/irritation (Category 1B)

Serious eye damage/eye irritation (Category 1)

### Label elements

Pictogram



Signal word Danger

### Hazard statement(s)

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

### Precautionary statement(s)

P260 Do not breathe dusts or mists.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P310 If swallowed: If you feel unwell, call a POISON CENTER or doctor/physician.

P302 + P352 IF ON SKIN: wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.

P337 + P313 IF eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

### Supplemental Hazard Statements

none

### **3. Composition/information on ingredients**

#### *Synonyms*

Ammonium hydrogen fluoride

CAS-No.: 1341-49-7

*M*: 57.04 g/mol

Molecular formula:  $\text{NH}_4\text{HF}_2$

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

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### **If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### **5. Fire-fighting measures**

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

### **6. Accidental release measures**

#### **Personal precautions**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### **Environmental precautions**

Do not let product enter drains.

#### **Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### **7. Handling and storage**

#### **Precautions for safe handling**

Avoid inhalation of vapour or mist.

#### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### **8. Exposure controls and personal protection**

#### **Appropriate engineering controls**

General industrial hygiene practice.

#### **Personal protective equipment**

##### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Respiratory protection is not required. 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).

Control of environmental exposure

Do not let product enter drains.

**9. Physical and chemical properties**

**Form:** crystals

**Colour:** Colorless

**Odour:** not available

**pH value:** not available

**Melting point:** 126°C

**Boiling point:** 230°C

**Ignition temperature:** not available

**Flash point:** not available

**Autoignition temperature:** not available

**Explosion limits**

**lower:** not available

**upper:** not available

**Density :** 1.5 g/cm<sup>3</sup>

**Bulk density:** not available

**Solubility in**

**water (20 °C) :** not available

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

**10. Stability and reactivity****Chemical stability**

no data available

**Conditions to avoid**

Avoid moisture.

**Materials to avoid**

Strong acid

**Hazardous decomposition products**

Other decomposition products - no data available

## **11. Toxicological information**

### **Acute toxicity**

no data available.

### **Skin corrosion/irritation**

no data available.

### **Serious eye damage/eye irritation**

no data available.

### **Respiratory or skin sensitization**

no data available.

### **Germ cell mutagenicity**

no data available.

### **Carcinogenicity**

The product is not or does not contain a component classified as a carcinogen by IARC, ACGIH, EPA, and NTP  
IARC: 3 - Group 3: Not classified as carcinogenic to humans (Ammonium bifluoride)

### **Specific target organ toxicity - single exposure**

no data available

### **Specific target organ toxicity - repeated exposure**

Prolonged or repeated exposure may damage organs.

### **Aspiration hazard**

no data available

## **12. Ecological information**

### **Toxicity**

no data available

### **Persistence and degradability**

no data available

### **Bioaccumulative potential**

no data available

### **Mobility in soil**

no data available

### **PBT and vPvB assessment**

no data available

### **Other adverse effects**

no data available

## **13. Disposal considerations**

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

### **Contaminated packaging**

Dispose of as unused product.

## **14. Transport information**

### **ADR/RID**

UN-Number: 1727    Class: 8    Packing group: II

Proper shipping name: AMMONIUM HYDROGENDIFLUORIDE, SOLID

### **IMDG**

UN-Number: 1727    Class: 8    Packing group: II

# **GHTECH** Material Safety Data Sheet

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Proper shipping name: AMMONIUM HYDROGENDIFLUORIDE, SOLID  
Marine pollutant :No

## **IATA**

UN-Number: 1727    Class: 8    Packing group: II  
Proper shipping name: Ammonium hydrogendifluoride, solid

### **15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **16. Other information**

General update.

*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.