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

Identification of the product

Lithium fluoride

Manufacturer/supplier identification

Company: Guangdong Guanghua Sci-Tech Co.,Ltd

Address: No.295 Daxue Road, Shantou

PostCode:515000

E-mail: export@ghtech.com

Emergency telephone No.: +86-754-82515813.

Fax No.: +86-754-88221999

#### 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 2)

Serious eye damage / eye irritation (Category 2A)

Specific target organ toxicity (single exposure) (Category 3), Respiratory system

#### Label elements

Pictogram

P261



## Signal word Danger

#### Hazard statement(s)

H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation

#### Precautionary statement(s)

P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or with adequate ventilation.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301 + P310 + P330	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water.
D204 - D240	

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

Avoid breathing dust/fume/gas/mist/vapours/spray.

present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

Lithium fluoride CAS-No.: 7789-24-4 *M*: 25.94 g/mol

Molecular formula: LiF

#### 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 dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 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 contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Absorbs carbon dioxide (CO<sub>2</sub>) from air.

#### 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: crystallization or powder

Colour: white

Odour: not available pH value: 7.0~8.5 Melting point: 845°C Boiling point: 1673°C

**Ignition temperature:** not available

**Flash point:** not available

Autoignition temperature: not available

**Explosion limits** 

lower: not available upper: not available Density: 2.63 g/cm<sup>3</sup>

**Bulk density:** not available

Solubility in

water (20 °C): slightly soluble in water diluted acids (20 °C): not available
Thermal decomposition: not available

## 10. Stability and reactivity

## **Chemical stability**

Stable under recommended storage conditions.

Conditions to avoid

No data available

## Materials to avoid

Strong oxidizing agents, Strong acid

## Hazardous decomposition products

Other decomposition products - no data available

## 11. Toxicological information

#### Acute toxicity

LD50 Oral - Rat - 143 mg/kg

#### Skin corrosion or irritation

no data available

## Serious eye damage or eye irritation

no data available

## Respiratory or skin sensitization

no data available

## Germ cell mutagenicity

no data available

## Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## Specific target organ toxicity - single exposure

no data available

## Specific target organ toxicity - repeated exposure

no data available

## **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

## 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: 3288 Class: 6.1 Packing group: III

Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S. (Lithium fluoride)

**IMDG** 

UN-Number: 3288 Class: 6.1 Packing group: III

Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S. (Lithium fluoride)

Marine pollutant: no

**IATA** 

UN-Number: 3288 Class: 6.1 Packing group: III

Proper shipping name: Toxic solid, inorganic, n.o.s. (Lithium fluoride)

## 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.