

## MATERIAL SAFETY DATA SHEET

### 1.Product and company identification

#### 1.1 Product identifiers

Product name : Aluminium isopropoxide

CAS-No. : 555-31-7

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis and Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet

Company : Changzhou Extraordinary Pharmatech co.,LTD

Add:No4 HouYang chemical industrial park.Changzhou Jiangsu province P.R.China

Email: info@feifanchem.com

Telephone : +86 519 82111935

Fax : +86 519 82611250

### 2.Hazard identification

#### 2.1Classification of the substance or mixture

Flammable solids, Category 1

#### 2.2GHS label elements, including precautionary statements

##### Pictogram(s)



##### Signal word

Danger

##### Hazard statement(s)

H228 Flammable solid

##### Precautionary statement(s)

##### Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment.

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

##### Response

P370+P378 In case of fire: Use ... to extinguish.

##### Storage

none

##### Disposal

none

#### 2.3Other hazards which do not result in classification

None

### 3.Composition/information on ingredients

#### 3.1Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Aluminium isopropoxide	Aluminium isopropoxide	555-31-7	none	100%

### 4.First-aid measures

#### 4.1Description of necessary first-aid measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

##### If inhaled

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

##### In case of skin contact

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

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2Most important symptoms/effects, acute and delayed

no data available

#### 4.3Indication of immediate medical attention and special treatment needed, if necessary

no data available

### 5.Fire-fighting measures

#### 5.1Extinguishing media

##### Suitable extinguishing media

Stop flow of liquid before extinguishing fire. Use dry chemical or carbon dioxide. DO NOT use water as straight stream directly on spilled material. Water fog can be used to control fire. DO NOT use halogenated extinguishing agents on spilled material. Violent reaction may result. Use water spray to keep fire-exposed containers cool. Fight fire from protected location or maximum possible distance. /Aluminum Alkyls/

#### 5.2Specific hazards arising from the chemical

no data available

#### 5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## **6.Accidental release measures**

### **6.1Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### **6.2Environmental precautions**

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

### **6.3Methods and materials for containment and cleaning up**

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## **7.Handling and storage**

### **7.1Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### **7.2Conditions for safe storage, including any incompatibilities**

Extremely reactive with air, moisture and compounds containing active hydrogen and therefore must be kept under a blanket of inert gas. /Aluminum alkyls/

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

### **8.1Control parameters**

#### **Occupational Exposure limit values**

Recommended Exposure Limit: 10-Hr Time-Weighted Avg: 10 mg/cu m (total). /Aluminum/

Recommended Exposure Limit: 10 Hr Time-Weighted Avg: 5 mg/cu m (resp). /Aluminum/

Recommended Exposure Limit: 10 Hr Time-Weighted Avg: 2 mg/cu m. /Aluminum (soluble salts and alkyls, as Al)/

Recommended Exposure Limit: 10 Hr Time-Weighted Avg: 5 mg/cu m. /Aluminum (pyro powders and welding fumes, as Al)/

#### **Biological limit values**

no data available

### **8.2Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **8.3Individual protection measures, such as personal protective equipment (PPE)**

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

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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.

#### **Respiratory protection**

Wear dust mask when handling large quantities.

#### **Thermal hazards**

no data available

### **9.Physical and chemical properties**

<b>Physical state</b>	white solid
<b>Colour</b>	White solid
<b>Odour</b>	no data available
<b>Melting point/ freezing point</b>	255°C(lit.)
<b>Boiling point or initial boiling point and boiling range</b>	187°C(lit.)
<b>Flammability</b>	no data available
<b>Lower and upper explosion limit / flammability limit</b>	no data available
<b>Flash point</b>	51°C(lit.)
<b>Auto-ignition temperature</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>pH</b>	no data available
<b>Kinematic viscosity</b>	no data available
<b>Solubility</b>	In water:REACTS
<b>Partition coefficient n-octanol/water (log value)</b>	no data available
<b>Vapour pressure</b>	no data available
<b>Density and/or relative density</b>	1.035
<b>Relative vapour density</b>	no data available
<b>Particle characteristics</b>	no data available

### **10.Stability and reactivity**

**10.1Reactivity**

no data available

**10.2Chemical stability**

Low melting solids or colorless, volatile liquids. /Alkylaluminum halides/

**10.3Possibility of hazardous reactions**

Certain polymerization catalysts, such as aluminum alkyls, react & burn violently on contact with water. /Aluminum alkyls/

**10.4Conditions to avoid**

no data available

**10.5Incompatible materials**

Extremely reactive with air, moisture, and compounds containing active hydrogen... /Alkyl aluminum compounds/

**10.6Hazardous decomposition products**

When heated to decomposition it emits acrid smoke and irritating fumes.

**11.Toxicological information**

**Acute toxicity**

Oral: LD50 Rat oral 11300 mg/kg

Inhalation: no data available

Dermal: no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

A4; Not classifiable as a human carcinogen. /Aluminum metal and insoluble compounds/

**Reproductive toxicity**

no data available

**STOT-single exposure**

no data available

**STOT-repeated exposure**

no data available

**Aspiration hazard**

no data available

**12.Ecological information**

**12.1Toxicity**

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

**12.2Persistence and degradability**

no data available

**12.3Bioaccumulative potential**

no data available

**12.4Mobility in soil**

no data available

**12.5Other adverse effects**

no data available

**13.Disposal considerations**

**13.1Disposal methods**

**Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

**Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

**14.Transport information**

**14.1UN Number**

ADR/RID: UN2925

IMDG: UN2925

IATA: UN2925

**14.2UN Proper Shipping Name**

ADR/RID: FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S.

IMDG: FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S.

IATA: FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S.



#### 14.3Transport hazard class(es)

ADR/RID: 4.1

IMDG: 4.1

IATA: 4.1

#### 14.4Packing group, if applicable

ADR/RID: II

IMDG: II

IATA: II

#### 14.5Environmental hazards

ADR/RID: no

IMDG: no

IATA: no

#### 14.6Special precautions for user

no data available

#### 14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

### 15.Regulatory information

#### 15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Aluminium isopropoxide	Aluminium isopropoxide	555-31-7	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.

### 16.Other information

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.

The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own

responsibility.

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Changzhou Extraordinary Pharmatech co., LTD not be held liable for any damage resulting from handling.