

# Safety Data Sheet

**Product Name: Calcium acetyl acetonate**

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### 1. Identification of substance

Product Name	Calcium acetyl acetonate
Other Name	None
Chemical Name	Calcium acetyl acetonate
Recommended Use	Mainly used as heat stabilizer which could generate synergic effect with stearoyl benzoyl methane and Dibenzoylmethane ( $\beta$ -diketone) for halogenated polymers such as rigid PVC. It also can be used as catalyst, cross-linking agent, resin hardening accelerant, resin and rubber additive, former agent of super conductive film, heat reflecting glass film, transparent conductive film etc.
Supplier Name	HUZHOU XINAOTE PHARMACEUTICAL & CHEMICAL CO.,LTD.
Address	LINGHU INDUSTRIAL AREA, HUZHOU, ZHEJIANG, P.R. CHINA /313019
Phone Number	+86-572-2688588
Fax Number	+86-572-3755766
WEB	www.xat.hk
Emergency Phone Number	Call your nearest poison control centre

### 2. Hazards identification

GHS classification	Acute toxicity-oral 4 Acute toxicity-dermal 4 Acute toxicity- inhalation 4 Skin corrosion/irritation 2 Serious eye damage/eye irritation 2A Reproductive toxicity 1B Specific target organ toxicity, single exposure 3
GHS Pictograms	
Signal words	Warning
Hazard statements	H302 Harmful if swallowed H312 Harmful in contact with skin H332 Harmful if inhaled H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation H360 May damage fertility or the unborn child
Precautionary Statement	P201: Obtain special instructions before use.
Prevention	P202: Do not handle until all safety precautions have been read and understood. P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statement Response	<p>P264: Wash hands thoroughly after handling.</p> <p>P270: Do not eat, drink or smoke when using this product.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301+P310: IF SWALLOWED: Call a POISON CENTER /doctor.</p> <p>P330: Rinse mouth.</p> <p>P302+P352: IF ON SKIN: Wash with plenty of soap and water.</p> <p>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P321: Specific treatment (see the supplemental first aid instruction).</p> <p>P332+P313: If skin irritation occurs: Get medical advice/attention.</p> <p>P337+P313: If eye irritation persists: Get medical advice/attention.</p> <p>P362+P364: Take off immediately contaminated clothing and wash it before reuse.</p> <p>P312: Call a POISON CENTER/doctor if you feel unwell.</p> <p>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P308+P313: IF exposed or concerned: Get medical advice/attention.</p>
Precautionary Statement Storage	<p>P403+P233: Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405: Store locked up.</p>
Precautionary Statement Diposal	<p>P501: Dispose of contents/container in according with local regulation.</p>
Other hazards which do not result in classification	Not available

### 3. Composition/information on ingredients

Substances

Mixtures

#### Component Information

Component	CAS number	EINECS number	Mass(%)
Calcium acetyl acetonate	19372-44-2	243-001-3	98%

### 4. First-aid measures

NOTE TO PHYSICIAN	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.
After inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Get immediate medical attention.
After skin contact	Immediately flush skin with plenty of water. Remove and

After eye contact	isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
After ingestion	Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention immediately. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Loosen tight clothing such as a collar, tie, belt or waistband. Do not use mouth-to-mouth method if victim ingested the substance. Seek immediate medical attention.
Most important symptoms/effects, acute and delayed	Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes skin irritation Causes serious eye irritation May cause respiratory irritation May damage fertility or the unborn child

**5. Fire-fighting measures**

Suitable extinguishing agents	Water spray, alcohol-resistant foam, CO <sub>2</sub> , Dry chemical powder.
Special hazards caused by the material, its products of combustion or flue gases	Can be released in case of fire: Nature of decomposition products not known.
Protective equipment for fire-fighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**6. Accidental release measures**

Person-related safety precautions	Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.
Measures for environmental protection	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting	Pick up and arrange disposal in suitable container. Clean contaminated surface thoroughly.
Additional information	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

## 7. Handling and storage

### Handling

Information for safe handling

Avoid contact with skin, eyes, mucous membranes and clothing.

In case of insufficient ventilation, wear suitable respiratory equipment If ingested.

Avoid formation of dust and aerosols.

Information about protection against explosions and fires

This product is not flammable.

### STORAGE

Requirements to be met by storerooms and containers

Keep in a cool, dry, well-ventilated place.  
Keep tightly closed until used.

Information about storage in one common storage facility

Store away from incompatible substances such as oxidizing agents.

Further information about storage conditions

No data

## 8. Exposure controls/personal protection

Limit Values for Exposure

### Component

CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL	NIOSH PEL-TWA	NIOSH PEL-STEL
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Calcium acetyl acetonate

19372-44-2	N.E.	N.E.	N.E.	N.E.
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Appropriate engineering controls

Use adequate ventilation to keep airborne concentrations low.

General protective and hygienic measures

Do not get this material in contact with skin. Do not get this material on clothing. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Breathing equipment

When workers are facing high concentrations they must use appropriate certified respirators.

Protection of hands

Wear appropriate chemical resistant gloves.

Eye/Face protection

Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.

Body protection

Use clean protective body-covering as needed to minimize contact with clothing and skin.

Note: 1. N.E. means not established.

### 9. Physical and chemical properties

Appearance (physical state, colour etc)	White powder
Odour	Not applicable
pH	10.5 at 10 g/L at 20 °C
Melting point/freezing point	> 280 °C
Boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Non-flammable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	0.41 hPa at 25 °C
Vapour density (air=1)	Not applicable
Relative density	Not applicable
Solubility (water)	Not applicable
Partition coefficient: n-octanol/water	log Pow: -1.2 at 23 °C
Auto-ignition temperature	400 °C -
Decomposition temperature	Not applicable
Viscosity	Not applicable

### 10. Stability and reactivity

Chemical stability	This is a stable chemical.
Possibility of hazardous reactions	Not available
Conditions to avoid (e.g. static discharge, shock or vibration)	Not available
Incompatible materials	Avoid contact with strong oxidizing.
Hazardous decomposition products	Not available

### 11. Toxicological information

Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.	
Acute Toxicity	
Calcium acetyl acetonate (CAS 19372-44-2)	LD50 (Oral, rat): 1250 mg/kg
Skin corrosion/Irritation	Cause skin irritation.
Serious eye damage/irritation	Cause serious eye irritation.
Respiratory or skin	No sensitizing effects known.

sensitization	
Germ cell mutagenicity	No data available for this chemical.
Carcinogenicity	No classification data on carcinogenic properties of this chemical is available from IARC, OSHA, ACGIH, EPA or NTP.
Reproductive toxicity	May damage fertility or the unborn child
STOT-single exposure	Inhalation-May cause respiratory irritation.
STOT-repeated exposure	No data available for this chemical.
Aspiration hazard	No data available for this chemical.
Chronic Effects	To the best of our knowledge the chronic effects of this product is not fully known. This product may be harmful if absorbed through the skin. May be harmful if inhaled and swallowed. Prolonged exposure may cause disorder of respiratory tract system.
Further Information	No data

**12. Ecological information**

Ecotoxicity	
Aquatic Toxicity	Calcium acetyl acetonate (CAS 19372-44-2) Test & Species 96 Hr LC50 fish: 190mg/L
Persistence and degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Not available
Additional Information	Not toxic to aquatic life

**13. Disposal considerations**

**WASTE DISPOSAL INSTRUCTIONS**

Contact a licensed professional waste disposal service to dispose of this material.  
Dispose of in accordance with local environmental regulations or local authority requirements.

**14. Transport information**

The Recommendation of Transport of Dangerous Goods(TDG)	
UN Number	
Proper Shipping Name	
Class/Division	The product is not regulated by TDG.
Package Group	The product is non-dangerous goods.
Subsidiary risk	
labelling pictogram	
Maritime transport IMDG	Being same with TDG
Air transport ICAO-TI and IATA-DGR	Being same with TDG

### 15. Regulatory information

#### European/International Regulations

<b>OSHA:</b>	Hazardous by definition of Hazard Communication Standard(29CFR 1910.1200).
<b>EINECS Status:</b>	This chemical is included in EINECS inventory.
<b>EPA TSCA Status:</b>	This chemical is included in TSCA inventory.
<b>Canadian DSL(Domestic Substances List):</b>	This chemical is included in DSL.
<b>HMIS(Hazardous Material Identification System Ratings):</b>	Health: 1 Flammability: 0 Physical hazard: 0 Personal protection: E (4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard)
<b>WHMIS(Canadian Workplace Hazardous Material Identification System Ratings):</b>	Not listed.
<b>GB 12268-2005 List of dangerous goods</b>	This chemical is not a dangerous goods on the GB 12268-2005 list of dangerous goods.

### 16. other information

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. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

<b>Abbreviations and acronyms</b>	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulations Concerning the International Transport of Dangerous Goods by Rail IMDG: International Maritime Code for Dangerous Goods IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
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<b>Edit Date</b>	04.19.2018
<b>Update and Revise</b>	Original edition
<b>Edit Standard</b>	<i>Globally Harmonized System of Classification and Labelling for Chemicals</i> Part 1.5
<b>Revised Institution</b>	Zhejiang Academy of Science and Technology for Inspection and Quarantine