

Safety Data Sheet

Product Name: Zinc acetyl acetonate

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1. Identification of substance

Product Name	Zinc acetyl acetonate
Other Name	None
Chemical Name	Zinc acetyl acetonate
Recommended Use	Used as initiators for polymerization of olefins and trans esterification resin hardening, cross linkers, It is used as a stabilizer PVC, also used as curing agents for epoxy resins, acrylic adhesives and silicone rubbers 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	+86-572-2618051
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 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
Precautionary Statement Prevention	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement Response	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor
	P302+P352	IF ON SKIN: Wash with plenty of water
	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 present and easy to do. Continue rinsing.
	P312	Call a POISON CENTER/doctor if you feel unwell.
	P321	Specific treatment (see the supplemental first aid instruction).
	P330	Rinse mouth.
	P332+P313	If skin irritation occurs: Get medical advice/attention.
	P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off immediately contaminated clothing and wash it before reuse.	
Precautionary Statement Storage	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.
Precautionary Statement Disposal	P501	Dispose of contents/container in according with local regulation.
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(%)
Zinc acetyl acetonate	14024-63-6	237-860-3	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 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 eye contact	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.
After ingestion	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
5. Fire-fighting measures	
Suitable extinguishing agents	Use water spray, dry chemical, carbon dioxide, or chemical foam.
Special hazards caused by the material, its products of combustion or flue gases	Can be released in case of fire: Carbon oxides.
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

Information about protection against explosions and fires	equipment If ingested. Avoid formation of dust and aerosols. Keep away from heat, sources of ignition, sparks or open flame.
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 strong oxidizing agents, acids, strong bases.
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
Zinc acetyl acetonate	14024-63-6	N.E.	N.E.	N.E.	N.E.
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 crystalline powder
Odour	Not applicable
pH	10 (4 g/L)
Melting point/freezing point	124 - 126°C
Boiling point and boiling	129 - 131°C (10mmHg)

range

Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Not-flammable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	0.174mmHg (25°C)
Vapour density(air=1)	Not applicable
Relative density	Not applicable
Solubility(water)	6.9 g/l
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	580°C
Decomposition temperature	> 170°C
Viscosity	Not applicable

10. Stability and reactivity

Chemical stability	This is a stable chemical under recommended storage conditions. Moisture sensitive.
Possibility of hazardous reactions	Not available
Conditions to avoid (e.g. static discharge, shock or vibration)	Incompatible materials, dust generation, exposure to moist air or water.
Incompatible materials	Avoid contact with strong oxidizing agents, acids, strong bases.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.	
Acute Toxicity	
Zinc acetyl acetonate: (CAS 14024-63-6)	LD50 (Oral, rat) : N/A LD50 (Dermal, rabbit) : N/A
Skin corrosion/Irritation	Causes skin irritation
Serious eye damage/irritation	Causes serious eye irritation
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	May cause respiratory irritation

STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Chronic Effects	Not classified
Further Information	No data

12. Ecological information

Ecotoxicity	
Aquatic Toxicity	Zinc acetyl acetonate (CAS 14024-63-6) Test & Species 96 Hr LC50 fish: N/A 48 Hr EC50 Daphnia: N/A
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

OSHA:	Hazardous by definition of Hazard Communication Standard(29CFR 1910.1200).
EINECS Status:	This chemical is included in EINECS inventory.
EPA TSCA Status:	This chemical is included in TSCA inventory.
Canadian DSL(Domestic Substances List):	This chemical is included in DSL.

HMIS(Hazardous Material Identification System Ratings):	Health: 2 Flammability: 0 Physical hazard: 0 Personal protection: F (4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard)
WHMIS(Canadian Workplace Hazardous Material Identification System Ratings):	Not listed.
GB 12268-2005 List of dangerous goods	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.

Abbreviations and acronyms	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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Update and Revise	Original edition
Edit Standard	<i>Globally Harmonized System of Classification and Labelling for Chemicals</i> Part 1.5
Revised Institution	Zhejiang Academy of Science and Technology for Inspection and Quarantine