



## MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO., LTD.

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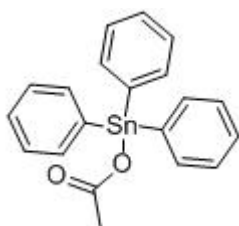
### 1. Chemical Product Identification

Product Name: Fentin acetate

Molecular Formula:  $C_{20}H_{18}O_2Sn$

Molecular Weight: 409.1

Structural Formula:



Chemical Name: triphenyltin acetate (IUPAC)

Form: Powder

Color: White

Odor: Odourless

CAS No.: 900-95-8

### 2. Composition / Information on Ingredients

| Composition       | CAS No.  | Content % |
|-------------------|----------|-----------|
| Fentin acetate    | 900-95-8 | 95.0      |
| Other ingredients |          | 5.0       |

### 3. Hazards Identification



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| Component      | Sympol | R phrases |
|----------------|--------|-----------|
| Fentin acetate | Xn     | R36/37/38 |

More important danger for the man: irritant to skin and eye.

Dangers for the environment: toxic to fish

Physical-chemical dangerous: None

## 4. First Aid Measures

Skin: In case of skin contact, flush with copious amounts of water for at least 15 minutes.

Remove contaminated clothing and shoes. Call a physician.

Eyes: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

## 5. Fire-Fighting Measures

Extinguishing media:

To be used: dry chemical, foam, carbon dioxide.

Don' t use: not applicable

Particular risk: not applicable

Measures of personal protection: safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

Environmental cautions

EX: prevent the contamination of the floor and of beds of water.

## 6. Accidental Release Measures

Personal cautions: safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

Cleaning methods

EX: pick up for sweeping or asplation avoiding the powder formation. Transfer to a properly labeled deposit that will be closed and sealed until the recovery of climination of the



product.

Environmental cautions

EX: prevent the contamination of the floor and of beds of water.

## 7. Handling and Storage

Safe handling advice: avoid contact with skin and eyes. Do not breathe dust. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking. Requirements for storage rooms: keep away from food, drink and animal feeding stuffs. Keep only in the original container in a cool, well ventilated place.

Additional information: read the label before use.

## 8. Exposure Controls/Personal Protection

Personal Protection: Compatible chemical-resistant gloves. Chemical safety goggles.

Respirators: Government approved respirator.

Exposure Effects: Properties of this material have not yet been prepared. Any recommendations are of a general nature. Many chemicals cause irritation of the eyes, skin, and respiratory tract. In severe cases respiratory tract irritation can progress to ARDS/acute lung injury which may be delayed in onset for up to 24 to 72 hours in some cases Irritation or burns of the esophagus or gastrointestinal tract are also possible if caustic or irritant chemicals are ingested. ALWAYS contact your local poison control authority or medical professional for assistance.

## 9. Physical and Chemical Properties

Appearance: white powder

Melting Point: 118-122°C

Density: 1.46-1.55g/cm<sup>3</sup>

Water solubility: 28mg/L

Acidity(as H<sub>2</sub>SO<sub>4</sub> calculate): ≤0.5%

Moisture content: ≤0.5%

Solid insolubles: ≤0.5%

## 10. Stability and Reactivity



Conditions to avoid: light

Products to avoid: emulsion products

Thermal decomposition: not applicable

Hazardous decomposition products: not applicable

Hazardous reaction: none

## 11. Toxicological Information

Acute oral LD50 for rat: male rats 316 (205-488) mg/kg; female rats 271 (200-369) mg/kg

Acute dermal LD50 for rat: 1470 mg/kg

Acute inhalation LD50 for rat: 0.044 mg/litre air, 4 hours, male rats 0.069 mg/litre air, 4 hours, female rats

Skin irritation: light irritant to skin

Eye irritation: irritant to eye

Mucous irritation: irritant to mucous

Skin sensitization: non-sensitive

Oncogenicity: caused pathological lesions on the uterus of female rats at lowest dose tested.

Teratology: caused hydrocephalus and hydronephrosis at 1.25 mg/kg.

Mutagenicity: not a mutagen.

Immunotoxicity: affects spleen weight and spleen cells and spleen cell response to mitogens at 2.5mg/kg/day.

## 12. Ecological And Ecotoxicological Information

Effects on fish:

LC50(96h) for *Cyprinus carpio* (Carp) 0.19 mg/l

Effects on daphnia and other aquatic invertebrates:

LC50(48h) for *Daphnia magna* (Water flea) 0.75 mg/l

Effects on algae:

Growth inhibition NOEC(72h) *Desmodesmus subspicatus* (green algae) 0.01 mg/l.

Growth inhibition EC50 (72h)- *Desmodesmus subspicatus* (green algae) - 0.032 mg/l.

Fentin acetate is very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment.



### **13. Disposal Considerations**

Discarded product is not a hazardous waste. Plastic Containers: Triple rinse(or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or alternatives allowed by the local authorities. Paper/Box Container: do not reuse container. Completely empty container into application equipment. Then dispose of empty container in sanitary landfill, or alternatives allowed the local authorities.

### **14. Transport information**

Not Applicable

### **15. Regulatory Information**

Not Applicable

### **16. Other Information**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.