

Fentin hydroxide -MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

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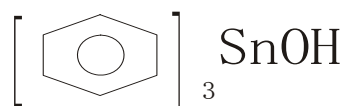
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1. Chemical Product Identification

Product Name: Fentin hydroxide

Chemical Name: Triphenyltin hydroxide

Chemical structural:



Molecular Formula: $C_{18}H_{16}OSn$

Molecular Weight: 367.04

CAS No.: 76-87-9

Appearance: greyish-white

2. Composition / Information On Ingredients

Composition	CAS No.	Content
Fentin hydroxide	76 – 87 – 9	94.0%
Other ingredients		6.0%

3. Hazards Identification

Component	Symbol	R phrases
Fentin hydroxide	Xn	R: 22, 38, 43

More important danger for the man: harmful if swallowed. Irritating to skin. May cause sensitization by skin contact. Harmful to aquatic organisms. to aquatic organisms.

Dangers for the environment:toxic to fish and other aquatic

Physical-chemical dangers: none

4. First Aid Measures

Effect and symptoms:

Ingestion: harmful if swallowed.

Skin contact: irritating to skin. May cause sensitization by skin contact.

Eye contact: may be irritating to eye.

Firstaid measures:

Skin: remove contaminated clothes. Rinse and then wash skin with water and soap.

Eyes: first rinse with plenty of water for several minutes (remove contact leenses if easily possible), then take to a doctor.

Inhalation: move to fresh air, rest. If breathing is difficult: artificial respiration. Refer for medical attention.

Ingestion: give plenty of water to drink. Refer for medical attention. Never tive anything by mouth to an unconscious person.

Note to a physician: there is no specific antidote. Treat symptomatically and give supportive therapy.

5. Fire-Fighting Measures

Extinguishing media: powder, water spray, foam, carbon dioxide.

Measures of personal protection: self-contained breathing apparatus and total protection required in enclosed areas.

Hazardous thermal: chloride compounds and nitrogen oxides.

6. Accidental Release Measures

Personal cautions: wear suitable protective clothing.

Cleaning methods: absorb remainder in sand or other inert material. Dispose of in an authorized waste collecting point.

Environmental cautions: don't discharge into drains or the environment.

7. Handling And Storage

Handling: ventilation required.

Storage: keep only in the original contaner. Keep in a cool, dry, well ventilated place away from direct sunlight.

Fire and explosion protection: the product can't open flames.

8. Exposure Controls / Personal Protection

Personal protective equipment:

Respiratory protection: respiratory protection is not required if good ventilation is maintained.

Skin and body protective: wear protective clothing. Chemical resistant boots.

Eye protection: safety goggles or face shield.

Hand: chemical resistant gloves.

Industrial hygiene: the workers must abide the industrial hygiene

9. Physical And Chemical Properties

Appearance: beige solid

Melting point: 80°C (technical material)

Density: approx. 1.30g/cm³

Water solubility: 430mg/L at PH 7.0 in water

Other solubility: in acetone, chloroform >1000, ethyl acetate 590, ethanol 200g/kg

Ph value: 5.0 – 8.0

Flammability: not flammable

Explosion and oxidation properties: not explosive and oxidizing.

10. Stability And Reactivity

Conditions to avoid: fire and high temperature

Products to avoid: oxidizing agents, acids and alkali.

Hazardous decomposition products: chloride compounds and nitrogen oxides.

Hazardous reaction: none

11. Toxicological Information

Acute oral LD50 for rat: >2150 mg/kg

Acute dermal LD50 for rat: >2000 mg/kg

Acute halation LC50 (4h) for rats: 34.5 mg/l

Eye irritation: non-irritative to eye

Skin irritation: non-irritative to skin

Skin sensitization: slight sensitive

Chronic toxic effects:

Animal studies have shown that metazachlor can cause damage to the liver, kidneys and blood count when it is administered repeatedly orally in high doses. Clear thresholds could be determined.

In long-term studies, no carcinogenicity was found. Animal studies did not show any indications of developmental toxicity/impairment of fertility. Metazachlor did not show any mutagenic properties in various test systems (*in vitro* and *in vivo*).

12. Ecological And Ecotoxicological Information

Bird: acute oral LD50 for bobwhite quail >2000mg/kg. Dietary LC50 (8d) for bobwhite quail and mallard ducks >5620mg/kg

Fish: LC50 (96h) for rainbow trout 4mg/l, carp 15mg/l, bluegill sunfish 15mg/l,

Daphnia: LC50 (48h) 22 mg/l

Algae: EC50 (48h) 1.63 mg/l.

Honeybee: contact (48h) >100µm/bee

Worms: LC50 (14d) >440 mg/kg soil.

Soil micro-organisms: negligible effects

13. Disposal Considerations

Dispose of in a pesticide approved landfill or in a chemical incinerator equipped with scrubbers, in accordance with national and regional regulations.

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.