



SAFETY DATA SHEETS

Version: 1.0

Fosthiazate

1. Identification

1.1 GHS Product identifier

Product name fosthiazate

1.2 Other means of identification

O-Ethyl S-(1-methylpropyl) (2-oxo-3-thiazolidinyl)phosphonothioate

1.3 Recommended use of the chemical and restrictions on use

Identified uses For industry use only.

1.4

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1.5 Emergency phone number

Emergency phone number +86-13701863355

2. Hazard identification

2.1 Classification of the substance or mixture

Acute toxicity - Oral, Category 3

Acute toxicity - Dermal, Category 4

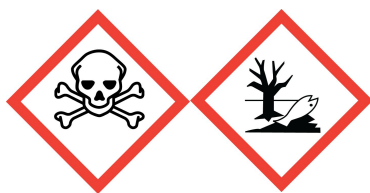
Skin sensitization, Category 1

Acute toxicity - Inhalation, Category 3

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

2.2 GHS label elements, including precautionary statements



Pictogram(s)

Signal word

Danger

Hazard statement(s)

H301 Toxic if swallowed

H312 Harmful in contact with skin

H317 May cause an allergic skin reaction

H331 Toxic if inhaled

H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

Prevention

P264 Wash ... thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P321 Specific treatment (see ... on this label).

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water/...



P312 Call a POISON CENTER/doctor/...if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P311 Call a POISON CENTER/doctor/...

P391 Collect spillage.

Storage

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501 Dispose of contents/container to ...

2.3

Other hazards which do not result in classification

none

3.Composition/information on ingredients

3.1Substances

Chemical name

fosthiazate cas 98886-44-3 100%

4.First-aid measures

4.1

Description 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.

4.2

Most important symptoms/effects, acute and delayed

no data available

4.3

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

no data available

5.Fire-fighting measures

5.1

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2

Specific hazards arising from the chemical

no data available

5.3

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6.Accidental release measures

6.1

Personal 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.

6.2

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.



Discharge into the environment must be avoided.

6.3

Methods 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

7.1

Precautions 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.

7.2

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

8.1

Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2

Appropriate engineering controls

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

8.3

Individual 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

Physical state light yellow liquid

Colour no data available

Odour no data available

Melting point/ freezing point no data available

Boiling point or initial boiling point and boiling range 371.3° C at 760 mmHg

Flammability no data available

Lower and upper explosion limit / flammability limit no data available

Flash point 178.3° C

Auto-ignition temperature no data available

Decomposition temperature no data available

pH no data available

Kinematic viscosity no data available

Solubility no data available

Partition coefficient n-octanol/water (log value) no data available

Vapour pressure no data available

Density and/or relative density 1.26 g/cm³

Relative vapour density no data available

Particle characteristics no data available

10. Stability and reactivity

10.1

Reactivity

no data available

10.2

Chemical stability

Stable under recommended storage conditions.

10.3

Possibility of hazardous reactions
no data available

10.4

Conditions to avoid
no data available

10.5

Incompatible materials
no data available

10.6

Hazardous decomposition products
no data available

11.Toxicological information

Acute toxicity

Oral: no data available

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

no data available

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

12.1

Toxicity

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

12.2

Persistence and degradability

no data available

12.3

Bioaccumulative potential

no data available

12.4

Mobility in soil

no data available

12.5

Other adverse effects

no data available

13. Disposal considerations

13.1

Disposal 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

14.1

UN Number

ADR/RID: UN2810 IMDG: UN2810 IATA: UN2810

14.2

UN Proper Shipping Name

ADR/RID: TOXIC LIQUID, ORGANIC, N.O.S.

IMDG: TOXIC LIQUID, ORGANIC, N.O.S.

IATA: TOXIC LIQUID, ORGANIC, N.O.S.

14.3

Transport hazard class(es)

ADR/RID: 6.1(b) IMDG: 6.1(b) IATA: 6.1(b)

14.4

Packing group, if applicable

ADR/RID: III IMDG: III IATA: III

14.5

Environmental hazards

ADR/RID: yes IMDG: yes IATA: yes

14.6

Special precautions for user

no data available

14.7

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

no data available

15. Regulatory information

15.1

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

Chemical name Common names and synonyms CAS number EC number

fosthiazate fosthiazate 98886-44-3 none

European Inventory of Existing Commercial Chemical Substances (EINECS) Not Listed.

EC Inventory Not Listed.

United States Toxic Substances Control Act (TSCA) Inventory Not Listed.

China Catalog of Hazardous chemicals 2015 Not Listed.

New Zealand Inventory of Chemicals (NZIoC) Not Listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS) Not Listed.

Vietnam National Chemical Inventory Not Listed.

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) Not Listed.



16.

Other information

Information on revision

2019-12-03