



## BOSMAN GROUP (HK) LIMITED

SUITE 1021, 10/F OCEAN CENTRE, HARBOUR CITY, 5 CANTON ROAD, TSIMSHATSUI, KOWLOON, HONGKONG

# MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

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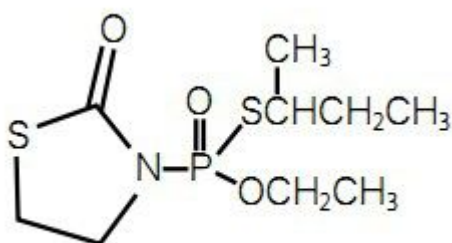
### 1. Chemical Product Identification

Product Name: Fosthiazate 10% Gr

Empirical Formula: C<sub>9</sub>H<sub>18</sub>NO<sub>3</sub>PS<sub>2</sub>

Molecular Weight: 283.3

Structural Formula:



Chemical Name:

(RS)-S-sec-butyl-O-ethyl-2-oxo-1 (IUPAC)

CAS No.: 98886-44-3

### 2. Composition/Information on Ingredients

| Material    | CAS Number | Concentration (%) |
|-------------|------------|-------------------|
| Fosthiazate | 98886-44-3 | 10                |
| Clay        | N/A        | 90                |
|             | -          | Up to 100%        |

### 3. Hazards Identification

#### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin sensitization (Category 1)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

Acute toxicity, Inhalation (Category 3)

Acute toxicity, Oral (Category 3)



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Acute toxicity, Dermal (Category 4)

### **Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Toxic by inhalation and if swallowed. Danger of very serious irreversible effects.

Harmful in contact with skin.

Risk of serious damage to eyes. May cause sensitization by skin contact. Very toxic to aquatic organisms,

may cause long-term adverse effects in the aquatic environment.

### **Label elements**

#### **Labelling according Regulation (EC) No 1272/2008 [CLP]**

Pictogram

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)

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

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing.

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

P311 Call a POISON CENTER or doctor/ physician

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard information (EU)

EUH070 Toxic by eye contact.

May produce an allergic reaction.

**Other hazards** - none

## **4. First Aid Measures**

### **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. Take victim immediately to hospital. 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.

## **5. Fire-Fighting Measures**



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Special protective equipment for fire fighters: In the event of fire, wear self-contained breathing apparatus.

Extinguishing media - small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires: Use alcohol-resistant foam or water spray. Extinguishing media which must not be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire.

Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

### **6. Accidental Release Measures**

**Personal precautions**, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**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.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

### **7. Handling and Storage**

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

**Conditions for safe storage, including any incompatibilities**

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

Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 °C

**Specific end uses**

no data available

### **8. Exposure Controls / Personal Protection**

**Control parameters**

Components with workplace control parameters

**Exposure controls**

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**Personal protective equipment**



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### **Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin protection**

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.

### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

## **9. Physical and Chemical Properties**

Form: Granules

Color: Reddish

Odor: Slightly, solvent

PH: No data

Solubility in Water: 9.85ml /L (20° C)

Melting point: 178.3° C

Flash point: Not applicable

Flammability: Does not sustain combustion

Oxidizing properties: The product is not oxidizing.

Explosive properties: Not explosive

Bulk Density: 1.26g/cm<sup>3</sup>

## **10. Stability and Reactivity**

Stability: Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

Incompatibility (Materials to Avoid): Incompatible with strong acids or bases (slowly hydrolyzes).

Decomposition: Decomposition will not occur.

Polymerization: Polymerization will not occur.



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### 11. Toxicological Information

Rat LD 50 oral :57~76mg/KG bw

Rat LD 50 dermal : 861~2396 mg/KG bw

Rat LC 50 inhalation: 0.56~0.83mg/L

Skin irrigation : non irritant

Eye irritation: non irritant

Skin sensitization : sensitizing

### 12. Ecological and Ecotoxicological Information

Birds :Acute toxicity :LD 50 (quail) 10mg/KG bw

Fish : LC 50 (96h,trout) 114 ,bluegill 171mg /L

Bees:LD50 (48h) (acute oral) 0.61 ug/bee  
(contact) 0.256ug/bee

Daphnia magna :EC50 (48h) 0.282 mg/L

### 13. Disposal Considerations

Product: In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate ponds, waterways or ditches with chemical or used container.

Container Disposal: For Metal Containers (non aerosol): Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by the local authorities.

For Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### 14. Transport Information

Do not transport with food and feed stuff; Marine pollutant.

Proper Shipping Name: Organophosphorus pesticide, solid, Toxic

Class: 6.1(b)

UN No.: 2810

Packing Group: III

### 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

no data available



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### **Chemical Safety Assessment**

no data available

### **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 produces 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.