

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Fosetyl Aluminium 80%WP

Trade Name: FOS ALI

CAS No.: 39148-24-8

Molecular Weight: 354.1

Chemical Formula: $C_6H_{18}AlO_9P_3$

Supplier and Authorized Exporter: Shenzhen Yancheng Chemicals Co., Limited

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2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Australian GHS Regulation

Serious eye damage/eye irritation: Category 2A

H319 Causes serious eye irritation.

2.2 Label elements

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

Fosetyl Aluminium

Signal word

Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash hands thoroughly after handling.

P280 Wear eye protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

2.3 Other hazards No other hazards known

No other hazards known.

3. COMPOSITION INFORMATION

Ingredient		CAS No.	Content
Active ingredient	Fosetyl Aluminium	39148-24-8	80%
Inert	Not listed		Up to 100%

4. FIRST AID MEASURES

4.1 Description of 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. Refer for medical attention. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use foam, dry powder or carbon dioxide.

5.2 Fire fighting procedures

Contain the spread of the fire-fighting media. Dike area to prevent runoff and contamination of water sources. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Equipment or materials involved in pesticide fire may become contaminated. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

5.3 Unusual fire/explosion hazards

This product, when mixed with air in critical concentrations and in the presence of an ignition source, may present a dust explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

6.1 Spill or leak procedures

Clean up spills immediately observing the precautions in Section 8 of this MSDS. Isolate the hazard area and keep unnecessary and unprotected personnel from entering. Prevent material from contaminating soil or from entering sewage and drainage systems and bodies of water. Avoid dust formation and avoid breathing dust. Use recommended protective equipment and carefully sweep up spilled material, placing it in a covered container for reuse or disposal. Scrub the contaminated area with soap and water followed by a water rinse. Use dry absorbent material to absorb and collect wash solution for proper disposal.

7. HANDLING AND STORAGE

Do not contaminate water, food, or feed by storage or disposal.

7.1 Precautions to be taken in handling

Handle and open container in a manner as to prevent spillage. Avoid dust production. Do not breathe dust. Avoid contact with skin and eyes.

7.2 Precautions to be taken in storage

Store in original container and keep tightly closed. Store in a cool dry place. Keep out of reach of children.
Keep away from food, drink and animal feedstuffs.

7.3 Storage temperature (MIN/MAX)

Normal ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, AND PACKAGING OF THE PRODUCT.

- Long-sleeved shirt and long pants.
- Waterproof gloves, shoes plus socks.
- Protective eyewear.

8.2 Additional protective measures

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

8.3 User safety recommendations

Users should:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

8.4 Engineering controls

Use adequate ventilation to minimize airborne concentrations of this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White powder
Odour	No characteristic odour
Odour threshold	No data available
pH	2.5-5.5
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid,gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water Solubility	No data available
Partition coefficient: n-octanol/water	No data available

Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

10.1 Stability

Stable under normal conditions.

10.2 Hazardous polymerization

Will not occur.

10.3 Incompatibility

Strong acids and strong bases

10.4 Instability conditions

Extremely humidity

10.5 Hazardous decomposition products

Thermal decomposition emits toxic fumes: carbon dioxide, carbon monoxide, AlOx, POx.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat >5,000 mg/kg

LC50 Inhalation - Rat - 4 h > 5.02 mg/l Determined in the form of dust

LD50 Dermal - Rat - >5,000 mg/kg

Skin corrosion/irritation

Skin - Rabbit

Result: Slight skin irritation

Serious eye damage/irritation

Eyes - Rabbit

Result: Irritating to eyes

Respiratory or skin sensitization

Non-sensitizing. (Guinea pig)

Germ cell mutagenicity

No data available

Carcinogenicity

Fosetyl Aluminium was not carcinogenic in lifetime feeding studies in rats and mice.

Reproductive toxicity

Fosetyl Aluminium did not cause reproductive toxicity in a two-generation study in rats

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

Fosetyl Aluminium did not cause specific target organ toxicity in experimental animal studies. **Aspiration hazard**

Based on available data, the classification criteria are not met.

Additional information

No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) > 120 mg/l

Exposure time: 96 h

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 37 mg/l

Exposure time: 48 h

Toxicity to aquatic plants

EC50 (Desmodesmus subspicatus (green algae)) 27.7 mg/l

Growth rate; Exposure time: 72 h

12.2 Persistence and degradability

Biodegradability

Fosetyl Aluminium: rapidly biodegradable

Koc

Fosetyl Aluminium: Koc: 0.1

12.3 Bioaccumulative potential

Does not bioaccumulate.

12.4 Mobility in soil

Highly mobile in soils

12.5 Other adverse effects

No other effects to be mentioned

13. DISPOSAL CONSIDERATION

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

13.1 Pesticide disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

13.2 Container disposal

Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

14.1 Dot classification

Not regulated

14.2 International transportation

IMO (vessel): Not regulated

IATA (air): Not regulated

15. REGULATORY INFORMATION

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15.3 Other hazards No other hazards known

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16. OTHER INFORMATION

Disclaimer:

The manufacture provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. The manufacture makes no representations or express or implied, including without limitation any warranties of merchantability fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, the manufacture will not be responsible for damages resulting from use of or reliance upon this information.
