

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)  
Classifications according to Regulation (EC) No 1272/2008.  
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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product name:

Fosetyl-aluminium

### 1.1. Catalog No.:

675372

### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical  
uses: R&D

### 1.3. Uses advised against:

HPC Standards GmbH  
Am Wieseneck 7

04451 Cunnersdorf  
Deutschland

Tel. +49 34291 3372-36  
Fax. +49 34291 3372-39  
contact@hpc-standards.com

### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36  
This number is only available during office hours.

## 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture  
· Classification according to Regulation (EC) No 1272/2008  
GHS05 corrosion  
Eye Dam. 1 H318 Causes serious eye damage.

### 2.2. Label elements

#### 2.2.1. Pictogram



#### 2.2.2.

2.2 Label elements  
· Labelling according to Regulation (EC) No 1272/2008  
The substance is classified and labelled according to the CLP regulation.  
· Signal word Danger  
· Hazard statements

H318 Causes serious eye damage.

- Precautionary statements

P280 Wear eye protection / face 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.

P310 Immediately call a POISON CENTER/doctor.

2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterisation: Substances

- CAS No. Description

39148-24-8 fosetyl aluminium

- Identification number(s) None

- EC number: 254-320-2

- Index number: 006-095-00-5

- RTECS: SZ9640000

#### 3.1.1. Formula

C<sub>6</sub>H<sub>18</sub>AlO<sub>9</sub>P<sub>3</sub>

#### 3.1.2. Molecular Weight (g/mol)

354.10

#### 3.1.3. CAS-No.

39148-24-8

#### 4. FIRST AID MEASURES

##### 4.1 Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing: Rinse mouth. Do not induce vomiting.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

#### 5. FIRE-FIGHTING MEASURES

##### 5.1 Extinguishing media

- Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.

##### 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

##### 5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.

#### 6. ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

##### 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

##### 6.3 Methods and material for containment and cleaning up:

Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

##### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7. HANDLING AND STORAGE

##### HANDLING

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

##### STORAGE

Conditions of Storage: Keep tightly closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: Lists used were valid at the time of SDS preparation.

### 8.2 Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- Respiratory protection: Not required.

- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374

- Material of gloves Nitrile rubber, NBR

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Tightly sealed goggles

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Crystalline

Colour: Colourless

- Odour: Odourless

- Odour threshold: Not determined.

- pH-value: Not applicable.

- Change in condition

Melting point/freezing point: >200 °C

Initial boiling point and boiling range: Not determined.

- Flash point: Not applicable.

- Flammability (solid, gas): Not determined.

- Ignition temperature: Not determined

- Decomposition temperature: Not determined.

- Auto-ignition temperature: Not determined.

- Explosive properties: Not determined.

- Explosion limits:

Lower: Not determined.

Upper: Not determined.

- Vapour pressure at 20 °C: 0.00001 hPa

- Density at 20 °C: 1.25 g/cm<sup>3</sup>

- Relative density Not determined.

- Vapour density Not applicable.

- Evaporation rate Not applicable.

- Solubility in / Miscibility with n-Heptane, Acetone, Xylene, Methanol

- water at 20 °C: 120 g/l

- Partition coefficient: n-octanol/water: -2.1 log P

- Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

### 9.2 Other information No further relevant information available.

## 10. STABILITY AND REACTIVITY

- 10.1 Reactivity Stable under normal conditions.
- 10.2 Chemical stability Stable under normal conditions.
  - Thermal decomposition / conditions to be avoided:  
Formation of toxic gases is possible during heating or in case of fire.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid Heat.
- 10.5 Incompatible materials: Strong oxidizing agents.
- 10.6 Hazardous decomposition products:  
Formation of toxic gases is possible during heating or in case of fire.

## 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
  - Acute toxicity Based on available data, the classification criteria are not met.
  - LD/LC50 values relevant for classification:
    - Oral LD50 5,000 mg/kg (mouse)
    - Dermal LD50 >2,000 mg/kg (rabbit)
    - Inhalative (LC50/4h) 1.73 mg/l (rat)
    - LD 50 (Intraperitoneal) 550 mg/kg (rat)
  - Primary irritant effect:
    - Skin corrosion/irritation Based on available data, the classification criteria are not met.
    - Serious eye damage/irritation  
Causes serious eye damage.
  - Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
  - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
    - Germ cell mutagenicity Based on available data, the classification criteria are not met.
    - Carcinogenicity Based on available data, the classification criteria are not met.
    - Reproductive toxicity Based on available data, the classification criteria are not met.
    - STOT-single exposure Based on available data, the classification criteria are not met.
    - STOT-repeated exposure Based on available data, the classification criteria are not met.
  - Aspiration hazard Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity
  - Aquatic toxicity:
    - EC50/48 h 304 mg/l (crustacean)
    - EC50/96h 20.5 mg/l (Algae)
    - LC50/96 h 141 mg/l (fish)
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
  - General notes:  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- European waste catalogue

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

- Uncleaned packaging:

- Recommendation: Dispose of in accordance with national regulations.

- Recommended cleansing agents: Water, if necessary together with cleansing agents.

### 14. TRANSPORT INFORMATION

#### 14.1 UN-Number

- ADR, ADN, IMDG, IATA Not applicable

- ADR, ADN, IMDG, IATA Not applicable

#### 14.3 Transport hazard class(es)

- ADR, ADN, IMDG, IATA

- Class Not applicable

#### 14.4 Packing group

- ADR, IMDG, IATA Not applicable

#### 14.5 Environmental hazards:

- Marine pollutant: No

#### 14.6 Special precautions for user Not applicable.

#### 14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

- UN "Model Regulation": Not applicable

### 15. REGULATORY INFORMATION

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

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I Substance is not listed.

#### 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!