



MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Trade name LENAPE WP

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Fungicide

1.3 Details of the supplier of the safety data sheet

Supplier CROWNBRIDGE MANAGEMENT L.P.
Suite 260,2323 - 32 Avenue N.8.,
Calgary, Alberta T2E623,
Canada
www.crownbridgetrading.com

Emergency Number 8004249300

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Canadian 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 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.



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2.3 Other hazards

No other hazards known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Fosetyl aluminium 80%

Chemical nature

Wettable powder (WP)

Chemical Name	CAS-No.	Concentration [%]
Fosetyl Aluminium	39148-24-8	80.00
Synthetic amorphous silica	112926-00-8	>= 1.00 - <= 5.00
Sodium hydroxide	1310-73-2	> 1.00 - < 5.00
Other ingredients (non-hazardous) to 100%		

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Move out of dangerous area. When symptoms develop and persist, seek medical advice.

Inhalation

Move the victim to fresh air and keep at rest. If symptoms persist, call a physician. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice.

Skin contact

Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Eye contact

Wash off immediately with plenty of water for at least 15 minutes. Eye treatment by an ophthalmologist.

Ingestion

Rinse mouth. Do NOT induce vomiting. Keep patient warm and at rest. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Skin, eye and mucous membrane irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. There is no specific antidote. Treat symptomatically.



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SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

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

Unsuitable High volume water jet

5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO), Nitrogen oxides (NOx), Oxides of phosphorus, Phosgene

5.3 Advice for firefighters

Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit.

Further information Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from firefighting to enter drains or water courses.

Hazchem Code Not applicable

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. Use personal protective equipment.

6.2 Environmental precautions Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice Check also for any local site procedures.

6.4 Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Use only in area provided with appropriate exhaust ventilation.



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Advice on protection against fire and explosion Avoid dust formation by friction. Dust may form explosive mixture in air.

Hygiene measures Remove contaminated clothing immediately and dispose of safely. Avoid contact with skin, eyes and clothing. Wash hands immediately after work, if necessary take a shower.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Fosetyl Aluminium	39148-24-8	10 mg/m3 (TWA)		OES BCS*
Synthetic amorphous silica (Inhalable dust.)	112926-00-8	10 mg/m3 (TWA)	12 2011	AU NOEL
Sodium hydroxide	1310-73-2	2 mg/m3 (PEAK)	12 2011	AU NOEL
Sodium hydroxide	1310-73-2	2 mg/m3 (TLV)		OES BCS*

8.2 Exposure controls

Respiratory protection Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

Eye protection Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection Wear standard coveralls and Category 3 Type 5 suit. If there is a risk of significant exposure, consider a higher protective type suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

General protective measures In normal use and handling conditions please refer to the label and/or leaflet.



Engineering Controls

Advice on safe handling Use only in area provided with appropriate exhaust ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	Wettable powder
Colour	brown
pH	3 - 4.5 at 1 % (23 °C) (CIPAC D water (342ppm))
Flash point	Not applicable
Flammability (solid, gas)	The product is not highly flammable.
Vapour pressure	< 0.0001 mPa at 25 °C The value mentioned relates to the active ingredient.
Bulk density	0.62 - 0.66 g/ml (loose)
Water solubility	dispersible
Partition coefficient: n-octanol/water	Fosetyl Aluminium: log Pow: -2.1
Surface tension	28 mN/m at 20 °C
Oxidizing properties	No oxidizing properties
Explosivity	Not explosive
9.2 Other information	Further safety related physical-chemical data are not known.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

Self heating not self-heating

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No hazardous reactions when stored and handled according to prescribed instructions.



- 10.4 Conditions to avoid** Extremes of temperature and direct sunlight.
Exposure to moisture.
- 10.5 Incompatible materials** Store only in the original container.
- 10.6 Hazardous decomposition products** Thermal decomposition can lead to release of:
Oxides of carbon
Nitrogen oxides (NO_x)
Oxides of phosphorus
Phosphine gas

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute oral toxicity** LD50 (Rat) > 5,000 mg/kg
- Acute inhalation toxicity** LC50 (Rat) > 5.02 mg/l
Exposure time: 4 h
Determined in the form of dust.
- Acute dermal toxicity** LD50 (Rat) > 5,000 mg/kg
- Skin irritation** Slight irritant effect - does not require labelling. (Rabbit)
- Eye irritation** Irritating to eyes. (Rabbit)
- Sensitisation** Non-sensitizing. (Guinea pig)
OECD Test Guideline 406, Buehler test

Assessment mutagenicity

Fosetyl Aluminium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

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

Assessment toxicity to reproduction

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

Assessment developmental toxicity

Fosetyl Aluminium did not cause developmental toxicity in rats and rabbits.

Assessment STOT 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.

Information on likely routes of exposure

Dusts may cause upper respiratory tract irritation, coughing.
May cause skin irritation.
Causes eye irritation.
May be harmful if swallowed.

Early onset symptoms related to exposure



Refer to Section 4

Delayed health effects from exposure

Refer to Section 11

Exposure levels and health effects

Refer to Section 4

Interactive effects

Not known

When specific chemical data is not available

Not applicable

Mixture of chemicals

Refer to Section 2.1

Further information

No further toxicological information is available.

SECTION 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

Bioaccumulation Fosetyl Aluminium:
Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Fosetyl Aluminium: Highly mobile in soils

12.5 Other adverse effects

Additional ecological information No other effects to be mentioned.

SECTION 13. DISPOSAL CONSIDERATIONS



Paper bags:

Shake bag contents into spray tank until the bag is empty. Do not dispose of undiluted chemicals on site. Puncture or shred and bury empty bags in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty bags and product should not be burnt.

SECTION 14. TRANSPORT INFORMATION

According to national and international transport regulations not classified as dangerous goods.

SECTION 15. OTHER INFORMATION

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF SDS