



The Chemical Company

Safety Data Sheet

Natuphos® SD Powder

Revision date : 2010/03/19

Version: 1.0

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(30041127/SDS_GEN_CA/EN)

1. Product and Company Identification

Company

BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information

CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

2. Hazards Identification

State of matter: solid
Colour: beige
Odour: product specific

Potential health effects

3. Composition / Information on Ingredients

Not WHMIS controlled.

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth immediately and then drink plenty of water, seek medical attention.

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

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5. Fire-Fighting Measures

Flash point:

not applicable

Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Suitable extinguishing media:

water, foam

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Avoid dust formation. Use breathing apparatus if exposed to vapours/dust/aerosol.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Cleanup:

Avoid raising dust. Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations.

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up.

7. Handling and Storage

Handling

Protection against fire and explosion:

Avoid dust formation. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

General advice:

Keep container tightly closed and dry; store in a cool place.

Temperature tolerance

Protect from temperatures below: 5 °C

The packed product must be protected from temperatures below the indicated one.

Protect from temperatures above: 8 °C

If transport time lasts more than 8 days the packed product must be protected against exceeding the indicated temperature.

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8. Exposure Controls and Personal Protection

Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

General safety and hygiene measures:

Do not breathe dust. Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form:	powder	
Odour:	product specific	
Odour threshold:	No data available.	
Colour:	beige	
pH value:	4	
:		No data available.
Bulk density:	600 kg/m ³	
Solubility in water:		partly soluble

10. Stability and Reactivity

Dust explosivity characteristics:

Kst: 72 m.bar/s (VDI 2263)

Dust explosion class:

Dust explosion class 1 (Kst-value >0 up to 200 bar m s⁻¹) (St 1)

Minimum ignition energy:

>= 4 J, approx. 20 °C

The product is capable of dust explosion.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Acute toxicity

Information on: Phytase

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation.

Oral:

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Information on: Phytase
Type of value: LD50
Species: rat
Value: > 2,000 mg/kg
Literature data.

Inhalation:

Information on: Phytase
Type of value: LC50
Species: rat
Value: > 5 mg/l (OECD Guideline 403)

Irritation / corrosion

Information on: Phytase
Assessment of irritating effects:
Not irritating to the skin. Not irritating to the eyes. Prolonged contact with the product can result in skin irritation.

Skin:

Information on: Phytase
Species: rabbit
Result: non-irritant
Method: OECD Guideline 404

Eye:

Information on: Phytase
Species: rabbit
Result: non-irritant
Method: OECD Guideline 405

Sensitization

Information on: Phytase
Assessment of sensitization:
Exposure to respirable aerosols and dusts of various enzymes may cause sensitization of the respiratory tract in predisposed individuals. Caused sensitization in humans.

Genetic toxicity

Information on: Phytase
Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

12. Ecological Information

Aquatic toxicity

Information on: Phytase
Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

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Aquatic invertebrates

Information on: Phytase

Acute:

OECD Guideline 202, part 1 semistatic

Daphnia magna/EC50 (48 h): > 80.7 mg/l

The statement of the toxic effect relates to the analytically determined concentration.

Microorganisms

Information on: Phytase

Toxicity to microorganisms:

DIN EN ISO 8192-OECD 209-88/302/EEC, P. C aerobic

activated sludge, domestic/EC20 (30 min): > 1,000 mg/l

Degradability / Persistence

Biological / Abiological Degradation

Information on: Phytase

Test method:

DIN 38409 Part 51 (aerobic), activated sludge, domestic

Method of analysis:

BOD of COD

Degree of elimination:

> 95 % (30 d)

Evaluation:

Readily biodegradable (according to OECD criteria).

Other adverse effects:

At the present state of knowledge, no negative ecological effects are expected.

13. Disposal considerations

Waste disposal of substance:

Observe national and local legal requirements.

14. Transport Information

Land transport

TDG

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

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15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / exempt

Feed DSL, CA released / exempt

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

BASF supports worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

Local Contact Information
BASF Canada Product Safety
289-360-1300

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