

Safety data sheet

Page: 1/8

BASF Safety data sheet
Date / Revised: 06.05.2013
Product: **Lutrell® Pure**

Version: 1.0

(30272045/SDS_GEN_AU/EN)

Date of print 08.05.2013

1. Substance/preparation and company identification

Lutrell® Pure

Use: feed additive(s)

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)
Level 12, 28 Freshwater Place Southbank
Victoria 3006, AUSTRALIA
Telephone: +61 3 8855-6600
Telefax number: +61 3 8855-6511

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]
BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

2. Hazard identification

The product is under certain conditions capable of dust explosion.

NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS

3. Composition/information on ingredients

Chemical nature

Preparation based on: 10,12-Octadecadienoic acid, methyl ester, (10E,12Z)-

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Contains: methyl oleate, silicic acid, Vegetable fat

4. First-Aid Measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air.

On skin contact:
Wash thoroughly with soap and water.

On contact with eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:
Rinse mouth and then drink plenty of water.

Note to physician:
Symptoms: No significant symptoms are expected due to the non-classification of the product.
Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Suitable extinguishing media:
water spray, foam, dry powder, carbon dioxide

Specific hazards:
Evolution of fumes/fog. Dust explosion hazard.

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
Dust can form an explosive mixture with air.

6. Accidental Release Measures

Personal precautions:
Avoid dust formation. Use personal protective clothing.

Environmental precautions:
Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:
For small amounts: Sweep/shovel up.
For large amounts: Contain with dust binding material and dispose of.
Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Handling

Avoid inhalation of dusts. Ensure thorough ventilation of stores and work areas. Handle in accordance with good industrial hygiene and safety practice.

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. Avoid whirling up the material/product because of the danger of dust explosion.

Storage

Suitable materials for containers: aluminum, High density polyethylene (HDPE)
Further information on storage conditions: Keep container tightly closed and in a cool place.

8. Exposure controls and personal protection

Components with occupational exposure limits

no exposure standard allocated

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

Form:	powder to fine granules
Colour:	white to yellow
Odour:	product specific
pH value:	not applicable
Melting point:	not determined
Boiling point:	not applicable
Flash point:	not applicable
Flammability:	not determined
Lower explosion limit:	not determined
Upper explosion limit:	not determined
Ignition temperature:	not determined
Self ignition:	not self-igniting
Explosion hazard:	Product is not explosive, however a dust explosion could result from an air / dust mixture.
Fire promoting properties:	not fire-propagating
Vapour pressure:	negligible
Relative density:	Study does not need to be conducted.
Bulk density:	0.8 g/cm ³
Relative vapour density (air):	not relevant
Solubility in water:	not soluble
Partitioning coefficient n-octanol/water (log Pow):	> 6 (calculated)
Viscosity, dynamic:	not relevant

10. Stability and Reactivity

Conditions to avoid:
See MSDS section 7 - Handling and storage.

Thermal decomposition: not determined

Substances to avoid:
atmospheric moisture, No substances known that should be avoided.

Hazardous reactions:
Dust explosion hazard.
The product is chemically stable.

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

11. Toxicological Information

Acute toxicity

Information on: methyl linoleate
LD50 rat (oral): > 2,000 mg/kg (OECD Guideline 423)
No mortality was observed.

Irritation

Information on: methyl linoleate
Primary skin irritation rabbit: non-irritant (OECD Guideline 404)

Information on: silicic acid
Primary skin irritation rabbit: non-irritant (OECD Guideline 404)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: methyl linoleate
Primary irritations of the mucous membrane rabbit: non-irritant (OECD Guideline 405)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: silicic acid
Primary irritations of the mucous membrane rabbit: non-irritant (OECD Guideline 405)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Literature data.

Assessment other acute effects

Assessment other acute effects:
Based on available Data, the classification criteria are not met.

Sensitization

Information on: methyl linoleate
Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)

Information on: silicic acid
Guinea pig maximization test guinea pig: Non-sensitizing. (Directive 84/449/EEC, B.6)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Repeated dose toxicity

Assessment of repeated dose toxicity:
No data available.

Genetic toxicity

Information on: silicic acid
Assessment of mutagenicity:
Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity:
Not evaluated

Developmental toxicity

Information on: methyl linoleate
Assessment of teratogenicity:
No indications of a developmental toxic / teratogenic effect were seen in animal studies.

12. Ecological Information

Ecotoxicity

Information on: silicic acid
Toxicity to fish:
LC50 (96 h) 1,108 mg/l, *Leuciscus idus* (OECD Guideline 203, semistatic)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: silicic acid
Aquatic invertebrates:
EC50 (48 h) 1,700 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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Information on: silicic acid

Aquatic plants:

EC50 (72 h) > 345 mg/l (growth rate), Scenedesmus subspicatus (OECD Guideline 201, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: silicic acid

Microorganisms/Effect on activated sludge:

EC0 (30 min) > 1,000 mg/l, Pseudomonas putida (OECD Guideline 209, aquatic)

Mobility

Assessment transport between environmental compartments:

No data available.

Persistence and degradability

Information on: methyl oleate

Assessment biodegradation and elimination (H₂O):

Readily biodegradable (according to OECD criteria).

Information on: silicic acid

Assessment biodegradation and elimination (H₂O):

Not applicable for inorganic substances.

Information on: methyl oleate

Elimination information:

80 - 90 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, domestic sewage)

Bioaccumulation potential

Information on: methyl oleate

Bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

13. Disposal Considerations

Observe national and local legal requirements.

14. Transport Information

Domestic transport:

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

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Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Poisons Schedule: Not scheduled

Regulations of the European union (Labelling)

Directive 1999/45/EC ('Preparation Directive'):

The product does not require a hazard warning label in accordance with EC Directives.

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Registration status:

AICS, AU released / exempt

feed additive(s)

16. Other Information

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.