



SAFETY DATA SHEET

Based on Directive 2001/58/EC of the Commission of the European Communities

ALIPHOS MODICAL

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name: ALIPHOS MODICAL
Synonyms: ALIPHOS MODICAL N
ALIPHOS MODICAL F
ALIPHOS MODICAL P

CAS No. : N.A.
EC index No. : N.A. **NFPA code** : N.D.
EINECS No. : N.A. **Molecular weight** : N.A.
RTECS No. : N.A. **Formula** : N.A.

1.2 Use of the substance or the preparation:

Animal feeding stuff: additive

1.3 Company/undertaking identification:

TESSENDERLO CHEMIE
Industriepark Schoonhees Zone 1
B-3980 Tessenderlo
Tel. : +32 13 61 22 11
Fax : +32 13 67 37 49

1.4 Telephone number for emergency:

+32 14 58 45 45
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2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
None	- -	-	-	-

(1) For R-phrases in full: see heading 16

3. Hazards identification

- No hazard classification in accordance with directives 67/548/EEC and 1999/45/EC

4. First aid measures

4.1 Eye contact:

- If irritation persists: consult a doctor/medical service
- Rinse with water

4.2 Skin contact:

- If irritation persists: consult a doctor/medical service
- Rinse with water

4.3 After inhalation:

- If breathing problems develop: consult a doctor/medical service
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

4.4 After ingestion:

- If you feel unwell: consult a doctor/medical service
- Never give water to an unconscious person

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Reason for revision : 1.1

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Non combustible
 - Extinguishing media for surrounding fires: all extinguishing media allowed
- 5.2 Unsuitable extinguishing media:**
- No data available
- 5.3 Special exposure hazards:**
- On burning: release of toxic and corrosive gases/vapours (phosphorus oxides)
- 5.4 Instructions:**
- Dilute toxic gases with water spray
- 5.5 Special protective equipment for firefighters:**
- Heat/fire exposure: compressed air/oxygen apparatus
 - Heat/fire exposure: gas-tight suit

6. Accidental release measures

- 6.1 Personal protection/precautions:**
See heading 8.1/8.3/10.3
- 6.2 Environmental precautions:**
- Contain released substance, pump over in suitable containers
 - Plug the leak, cut off the supply
 - Knock down/dilute dust cloud with water spray
- 6.3 Methods of cleaning up:**
- Prevent dust cloud formation
 - Shovel solid spill into closing drums
 - Clean contaminated surfaces with an excess of water
 - Wash clothing and equipment after handling

7. Handling and storage

- 7.1 Handling:**
- Observe normal hygiene standards
 - Avoid raising dust
- 7.2 Storage:**
- Keep container tightly closed
 - Meet the legal requirements
 - Keep away from: heat sources
- | | | |
|--------------------------------|---|-----------|
| Storage temperature | : | N.D. |
| Quantity limits | : | N.D. |
| Storage life | : | 1095 days |
| Materials for packaging | : | |
- suitable : no data available
 - to avoid : no data available
- 7.3 Specific uses:**
- See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

TLV-TWA	: not listed
TLV-STEL	: not listed
TLV-Ceiling	: not listed
OES-LTEL	: not listed
OES-STEL	: not listed
MEL-LTEL	: not listed
MEL-STEL	: not listed
MAK	: not listed
TRK	: not listed
MAC-TGG 8 h	: not listed
MAC-TGG 15 min.	: not listed
MAC-Ceiling	: not listed
VME-8 h	: not listed
VLE-15 min.	: not listed
GWBB-8 h	: not listed
GWK-15 min.	: not listed
Momentary value	: not listed
EC	: not listed
EC-STEL	: not listed

Sampling methods:

- No data available

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Work under local exhaust/ventilation

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection:

- In case of dust production: dust mask with filter type P1

8.3.2 hand protection:

- Gloves
Suitable materials: No data available
- Breakthrough time: N.D.

8.3.3 eye protection:

- Safety glasses
- In case of dust production: protective goggles

8.3.4 skin protection:

- Protective clothing
Suitable materials: No data available

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	:	Crystalline solid / Dry chemical powder
Odour	:	Odourless
Colour	:	Off-white

9.2 Important health, safety and environmental information:

pH value	:	3.6/4 (1 %)	
Boiling point/boiling range	:	N.D.	°C
Flashpoint	:	N.A.	°C
Explosion limits	:	N.D.	vol% (°C)
Vapour pressure (at 20°C)	:	N.A.	hPa
Vapour pressure (at 50°C)	:	N.D.	hPa
Relative density (at 20°C)	:	0.9	
Water solubility	:	50	g/100 ml
Soluble in	:	N.D.	
Relative vapour density	:	N.D.	
Viscosity	:	N.A.	Pa.s
Partition coefficient n-octanol/water	:	N.D.	
Evaporation rate	:		
ratio to butyl acetate	:	N.D.	
ratio to ether	:	N.D.	

9.3 Other information:

Melting point/melting range	:	N.D.	°C
Auto-ignition point	:	N.D.	°C
Saturation concentration	:	N.D.	g/m ³

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:

- Stable under normal conditions

10.2 Materials to avoid:

- Keep away from: heat sources

10.3 Hazardous decomposition products:

- On burning: release of toxic and corrosive gases/vapours (phosphorus oxides)

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LC50 inhalation rat	: N.D.	mg/l/4 h
LC50 inhalation rat	: N.D.	ppm/4 h

11.2 Chronic toxicity:

EC carc. cat.	: not listed
EC muta. cat.	: not listed
EC repr. cat.	: not listed
Carcinogenicity (TLV)	: not listed
Carcinogenicity (MAC)	: not listed
Carcinogenicity (VME)	: not listed
Carcinogenicity (GWBB)	: not listed
Carcinogenicity (MAK)	: not listed
Mutagenicity (MAK)	: not listed
Teratogenicity (MAK)	: not listed
IARC classification	: not listed

11.3 Routes of exposure: ingestion, inhalation, eye and skin

11.4 Acute effects/symptoms:

- Unlikely to cause harmful effects

11.5 Chronic effects:

- Unlikely to cause harmful effects
- Not listed in mutagenicity class (EC,MAK)
- Contains traces of a (possibly) carcinogenic substance
- Contains traces of a (possibly) teratogenic substance
- Contains traces of a (possibly) fertility impairing substance
- Contains: Cd - As - Hg - Pb

12. Ecological information

12.1 Ecotoxicity:

- No data available

12.2 Mobility:

- Volatile organic compounds (VOC): N.A.
- Moderately soluble in water

For other physicochemical properties see section 9

12.3 Persistence and degradability:

- biodegradation BOD₅ : N.A.
- water : N.B
- soil : N.D.

12.4 Bioaccumulative potential:

- log P_{ow} : N.D.
- BCF : N.D.

12.5 Other adverse effects:

- WGK : N.D.
- Effect on the ozone layer : Not dangerous for the ozone layer (1999/45/EC)
- Greenhouse effect : no data available
- Effect on waste water purification : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 06 03 14 (solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13)
- Waste material code (Flanders): 220

13.2 Disposal methods:

- According to literature: no environmental hazard
- Recycle/reuse

13.3 Packaging:

- No data available

14. Transport information

- 14.1 Classification of the substance in compliance with UN Recommendations
- | | | |
|----------------------|---|---|
| UN-number | : | - |
| CLASS | : | |
| SUB RISKS | : | |
| PACKING | : | |
| PROPER SHIPPING NAME | : | |
- 14.2 ADR (transport by road)
- | | | |
|-----------------------|---|-------------|
| CLASS | : | NOT SUBJECT |
| PACKING | : | |
| DANGER LABEL TANKS | : | |
| DANGER LABEL PACKAGES | : | |
- 14.3 RID (transport by rail)
- | | | |
|-----------------------|---|-------------|
| CLASS | : | NOT SUBJECT |
| PACKING | : | |
| DANGER LABEL TANKS | : | |
| DANGER LABEL PACKAGES | : | |
- 14.4 ADNR (transport by inland waterways)
- | | | |
|-----------------------|---|-------------|
| CLASS | : | NOT SUBJECT |
| PACKING | : | |
| DANGER LABEL TANKS | : | |
| DANGER LABEL PACKAGES | : | |
- 14.5 IMDG (maritime transport)
- | | | |
|------------------|---|-------------|
| CLASS | : | NOT SUBJECT |
| SUB RISKS | : | |
| PACKING | : | |
| MFAG | : | |
| EMS | : | |
| MARINE POLLUTANT | : | |
- 14.6 ICAO (air transport)
- | | | |
|---|---|-------------|
| CLASS | : | NOT SUBJECT |
| SUB RISKS | : | |
| PACKING | : | |
| PACKING INSTRUCTIONS PASSENGER AIRCRAFT | : | |
| PACKING INSTRUCTIONS CARGO AIRCRAFT | : | |
- 14.7 Special precautions in connection with transport
- | | | |
|--|---|--|
| | : | not restricted for any mode of international transport |
|--|---|--|

15. Regulatory information

Labelling in accordance with directives 67/548/EEC and 1999/45/EC

NOT APPLICABLE

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
***** = INTERNAL CLASSIFICATION

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA 2002
OES : Occupational Exposure Standards - United Kingdom 2001
MEL : Maximum Exposure Limits - United Kingdom 2001
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2002
TRK : Technische Richtkonzentrationen - Germany 2001
MAC : Maximale aanvaarde concentratie - The Netherlands 2002
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs Limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 2002
GWK : Grenswaarde kortstondige blootstelling - Belgium 2002
EC : Indicative occupational exposure limit values - Directive 2000/39/EC

I : Inhalable fraction = **T** : Total dust = **E** : Einatembarer Aerosolanteil
R : Respirable fraction = **A** : Alveolengängiger Aerosolanteil/Alveolar dust
C : Ceiling limit

a:	aerosol	r:	rook/Rauch	(fume)
d:	damp (vapour)	st:	stof/Staub	(dust)
du:	dust	ve:	vezel	(fibre)
fa:	Faser (fibre)	va:	vapour	
fi:	fibre	om:	oil mist	
fu:	fume	on:	olienevel/Ölnebel	(oil mist)
p:	poussière (dust)	part:	particles	

Chronic toxicity:

K: List of the carcinogenic substances and processes - The Netherlands 2003