



# SAFETY DATA SHEET

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

## ALIPHOS DICAL

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

#### 1.1 Identification of the substance or preparation:

Product name: ALIPHOS DICAL

Synonyms: none

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  
Brandweerinformatiecentrum voor gevaarlijke stoffen (B.I.G.)  
Technische Schoolstraat 43 A, B-2440 Geel

### 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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# ALIPHOS DICAL 18

## 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

# ALIPHOS DICAL 18

## 9. Physical and chemical properties

### 9.1 General information:

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

### 9.2 Important health, safety and environmental information:

pH value	: 7 (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)	: 1.0	
Water solubility	: 0.02	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 <sup>3</sup>

## 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 BOD<sub>5</sub> : N.A.
- water : N.B
- soil : N.D.

### 12.4 Bioaccumulative potential:

- log P<sub>ow</sub> : N.D.
- BCF : N.D.

### 12.5 Other adverse effects:

- WGK : 1 (classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- 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

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

### Chronic toxicity:

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