

## 1. Identification of the substance/mixture and of the Company/Undertaking

### 1.1 Product identifier

# BUMINAL®

## 50 / TECH

**Trade name:** Buminal 50 / Tech

**REACH registration number:** The registration number is not available since the substance or its use is exempted from the registration according to article 2 of the REACH Regulation (EC) No 1272/2008, the yearly amount does not require a registration or the registration is foreseen at a later point.

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

**Identified uses of the substance/mixture:** Protein hydrolysate for use as attractant for fruit and olive fruit flies

**Not recommended uses of the substance/mixture:** none

### 1.3 Details of the supplier of the Safety Data Sheet

**Manufacturer**  
**BUMINAL** GmbH  
Kirchstrasse 18  
82211 Herrsching  
Germany

**Telephone:** +49 (0)8152 983 547  
**Fax:** +49 (0)8152 983 563  
**E-mail:** info@buminal.com

### 1.4 Emergency telephone number

**Telephone:** +49 (0)172 6106 321

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [GHS].

#### 2.1.2 Classification according to Directive 67/548/EEC and 1999/45/EC

The preparation is not dangerous in the sense of Directive 1999/45/EC.

#### 2.1.3 Additional information

This substance does not meet the criteria for classification as PBT or vPvB.

### 2.2 Label elements

#### 2.2.1 Labelling according to Regulation (EC) No 1272/2008

There is no obligatory labelling requirement according to Regulation (EC) No 1272/2008.

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### 2.2.2 Labelling according to Directive 67/548/EEC or 1999/45/EC

There is no obligatory labelling requirement according to the Directive covering preparations 1999/45/EC.

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## 3. Composition/information on ingredients

### 3.1 Substances

Buminal is a protein hydrolysate obtained from plant material, which is used as attractant for fruit flies (*Ceratitis capitata*) and olive fruit flies (*Bactrocera/Dacus oleae*).

Protein content: ~37-39 % (w/w) (38,2 g/100g)

Water content: ~54-58 % (w/w) (42.6 g/100g)

Can contain minor amounts of aflatoxins (B1, B2, G1 and G2; sum: <1.20 µg/kg) and heavy metals (arsenic: 0.035 mg/kg, cadmium: 0.005 mg/kg, mercury: <0.08 mg/kg).

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## 4. First aid measures

### 4.1 Description of first aid measures

<b>General information:</b>	No special measures are necessary. Seek medical attention if problems arise.
<b>Following inhalation:</b>	Provide fresh air.
<b>Following skin contact:</b>	After contact with skin, wash immediately with plenty of water and soap.
<b>Following eye contact:</b>	Rinse immediately carefully and thoroughly with eye-bath or water.
<b>Following ingestion:</b>	If accidentally swallowed rinse the mouth with plenty of water.

**Self-protection:** First aid assistant: Pay attention to self-protection!

### 4.2 Most important symptoms and effects, both acute and delayed

**Symptoms:** No symptoms known up to now.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically.

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## 5. Fire fighting measures

### 5.1 Extinguishing media

<b>Suitable:</b>	Extinguishing materials should be selected according to the surrounding area.
<b>Unsuitable:</b>	High power water jet.

### 5.2 Special hazards arising from the substance or mixture

The product itself is not combustible. Hazardous decomposition products unknown.

### 5.3 Advice for fire fighters

Wear a self-contained breathing apparatus and chemical resistant suit.

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## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled or released material. No further protection measures are necessary.

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## 6.2 Environmental precautions

No special environmental protection measures are necessary. Do not empty into drains or the aquatic environment.

## 6.3 Methods and material for containment and cleaning up

Remove with water. Wipe up with absorbent material (eg. cloth, fleece).

## 6.4 Reference to other sections

See chapter 13 on disposal considerations.

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# 7. Handling and storage

## 7.1 Precautions for safe handling

### Information for safe handling

Personal protection equipment not necessary, since the product is not hazardous. However, avoid contact with the material.

### Technical measures

No special technical protective measures are necessary.

### Precautions against fire and explosion

not necessary

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Keep in a cool, well-ventilated place.

### Packaging materials

Store only in original container.

### Requirements for storerooms and containers

Keep the packing well sealed to prevent contamination.

### Information about storing together in storage facility

Keep away from food, drink and animal feedingstuffs.

### Further information concerning storage conditions

Observe instructions for use.

**Storage class:** 12 non-combustible liquids

## 7.3 Specific end use(s)

Except the uses indicated in chapter 1.2 no further specific end uses are foreseen.

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# 8. Exposure controls / Personal protection

## 8.1 Control parameters

### 8.1.1 Limits for occupational exposure

No occupational exposure limits have been identifies/indicated.

### 8.1.2 DNEL and PNEC values

**DNEL-values:** no data available

**PNEC-values:** no data available

### 8.1.3 Control-Banding

**Control-Banding:** no data available

## 8.2 Exposure controls

#### Occupational exposure controls

When using do not eat, drink or smoke.

#### Chemical handling

Avoid contact with skin, eye and clothing.

#### Personal protection equipment

The product has been classified as non hazardous. Personal protection equipment (respiratory, hand, eye, skin protection) is not necessary. However, it is recommended to use appropriate hand protection to avoid contact with skin. (suitable: single-use gloves)

#### Environmental exposure controls

No special environmental protection measures are necessary.

#### Consumer exposure controls

See chapter 7.

## 9. Physical and chemical properties

### 9.1 Information on the basic physical and chemical properties

#### Appearance

**State of matter:** viscous liquid  
**Colour:** dark brown  
**Odour:** neutral  
**Odour threshold:** not relevant

#### Safety relevant basis data

	Value	Unit	Remark
<b>Density:</b>	1.29-1.31	g/cm <sup>3</sup>	at 20°C; method: areometer, Biegeschwinger, DMA 4500
<b>Package density:</b>			not relevant
<b>pH:</b>	5.3-6.12	-	method: ASU §35 L26.04-3
<b>Melting point / range:</b>			not relevant
<b>Boiling temperature / range:</b>	~100	°C	boiling point water
<b>Flash point:</b>			non flammable
<b>Flammability:</b>			not relevant
<b>Lower flammability limit:</b>			not relevant
<b>Upper flammability limit:</b>			not relevant
<b>Explosion hazard:</b>			not explosive

Lower explosion limit:			not explosive
Upper explosion limit:			not explosive
Ignition temperature:			not relevant
Decomposition temperature:			not relevant, no hazardous decomposition products
Oxidizing characteristics:			not relevant
Vapour pressure:			not relevant
Relative vapour density:			not relevant
Speed of vaporization/evaporation rate:			not relevant
Solubility in water:			completely miscible
log P O/W (n-octanol / water):			not relevant
Viscosity:	52	mPa*s	method: rotation viscosimetry

## 9.2 Other information

Protein: 37.5-39.6 g/100g (method: Kjeldahl; value dependent on raw material source)

## 10. Stability and reactivity

### 10.1 Reactivity

No ignition, explosion, self-heating or visible decomposition under standard conditions.

### 10.2 Chemical stability

Stable under standard conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions unknown.

### 10.4 Conditions to avoid

Heat: denaturation of proteins if exposed to heat.

### 10.5 Incompatible materials

unknown

### 10.6 Hazardous decomposition products

unknown

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product is not toxic.

#### Specific symptoms in laboratory animals

No information available.

### 11.2 Irritation and etching

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<b>Irritant effect on the skin</b>	not relevant
<b>Irritant effect on the eye</b>	not relevant
<b>Irritant effect on the respiratory tract</b>	not relevant
<b>Etching</b>	not relevant

### 11.3 Sensitization

No information available.

### 11.4 Repeated dose toxicity

Product is not toxic.

### 11.5 CMR effects

<b>Carcinogenicity</b>	not relevant
<b>Mutagenicity</b>	not relevant
<b>Reproductive toxicity</b>	not relevant

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## 12. Ecological information

### 12.1 Toxicity

Product is not toxic

### 12.2 Persistence and degradability

Substances contained in product are not persistent.

### 12.3 Bioaccumulative potential

No indication of bio-accumulation potential.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Substances contained in product do not meet the criteria for classification as PBT or vPvB.

### 12.6 Other adverse effects

No information available.

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## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Appropriate disposal/product

Waste disposal according to official state regulations.

**Appropriate disposal/packaging**

Waste disposal according to official state regulations.

**Control report for waste code/ waste marking according to EWC**

Consult the appropriate authorities about waste disposal.

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**14. Transport information****14.1 UN Number**

Not classified according to the ADR.

**14.2 UN proper shipping name****ARD/RID**

Not classified according to the ADR.

**IMDG-Code / ICAO-TI / IATA-DGR**

No information available.

**14.3 Transport hazard class(es)**

No information available.

**14.4. Packing group**

No information available.

**14.5. Environmental hazards****Hazard code(s)**

**ARD/RID / IMDG-Code / ICAO-TI / IATA – DGR:** No information available.

**Marine pollutant:** no

**14.6 Special precautions for users**

Refer to chapter 6-8.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**Pollution Category:** No information available.

**Ship type:** No information available.

**Product name:** No information available.

**Special provisions:** No information available.

**14.8 Further limitations and legal requirements**

No information available.

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**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

The product is classified as biocide (group 3: pest control; product type 19: repellent and attractant) and is

subject to the EU Biocide Directive 98/8/EC.

### National regulations

Moreover, national legislation has to be observed!

### Information on working limitations

Youths are only allowed to handle this product according to the regulation 94/33/EC, and as long as all effects of dangerous substances are prevented. Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace.

### Storage class according to VCI (DE)

12 non-combustible liquids

### Water Hazard Class according to VwVwS (DE)

0 not a water pollutant

## 15.2 Chemical safety assessment

For this preparation a chemical safety assessment has been carried out: no

## 16. Other information

### 16.1 Wording of the H and R-phrases under paragraph 2 and 3

#### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [GHS].

#### Directive 67/548/EEC

The preparation is not dangerous in the sense of Directive 1999/45/EC.

### 16.2 Training instructions

The product should only be handled by persons over the age of 18, who were informed sufficiently about the dangerous nature of the product and about the necessary safety precautions.

### 16.3 Further remarks

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

### 16.4 Documentation of changes

none

### 16.5 Data sources

Data arise from reference works and literature.

Herrsching, 05.02.2016

