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# **BIOPOWER SL276,5 4X5L BOT UA**

Version 9 / EU Revision Date: 05.08.2016 102000013441 Print Date: 14.11.2017

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name BIOPOWER SL276,5 4X5L BOT UA

Product code (UVP) 05815990

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

**Use** Synergist

1.3 Details of the supplier of the safety data sheet

**Supplier** Bayer AG

Kaiser-Wilhelm-Allee 1 51373 Leverkusen

Germany

**Telefax** +49(0)2173-38-7394

**Responsible Department** Substance Classification & Registration

+49(0)2173-38-3409 (during business hours only)

Email: BCS-SDS@bayer.com

1.4 Emergency telephone no.

**Emergency telephone no.** Global Incident Response Hotline (24h)

+1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science Division)

### **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Skin irritation: Category 2

H315 Causes skin irritation.

Eye irritation: Category 2

H319 Causes serious eye irritation.

Chronic aquatic toxicity: Category 3

H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

· Alkylethersulfate, sodium salt



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## Signal word: Warning

## **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

EUH401 To avoid risks to human health and the environment, comply with the instructions for

use.

EUH208 Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

# **Precautionary statements**

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P337 + P313 If eye irritation persists: Get medical advice/ attention. P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P501 Dispose of contents/container in accordance with local regulation.

#### 2.3 Other hazards

No other hazards known.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

# 3.2 Mixtures

# Chemical nature

Soluble concentrate (SL)

Alkylethersulfate, sodium salt 276,5 g/l

# **Hazardous components**

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. /	Classification	Conc. [%]
	EC-No. / REACH Reg. No.	REGULATION (EC) No 1272/2008	
Alkylethersulfate, sodium salt	68891-38-3 500-234-8	Eye Dam. 1, H318 Skin Irrit. 2, H315 Aquatic Chronic 3, H412	27
1,2-Benzisothiazol-3(2H)- one	2634-33-5 220-120-9	Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302 Skin Sens. 1, H317 Skin Irrit. 2, H315	> 0,005 - < 0,05

#### **Further information**

For the full text of the H-Statements mentioned in this Section, see Section 16.



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### **SECTION 4: FIRST AID MEASURES**

# 4.1 Description of first aid measures

General advice Move out of dangerous area. Place and transport victim in stable

position (lying sideways). Remove contaminated clothing immediately

and dispose of safely.

Inhalation Move to fresh air. Keep patient warm and at rest. Call a physician or

poison control center immediately.

Skin contact Wash off immediately with soap and plenty of water. If symptoms

persist, call a physician.

Rinse immediately with plenty of water, also under the eyelids, for at Eye contact

> least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation

develops and persists.

Ingestion Do NOT induce vomiting. Rinse mouth. Call a physician or poison

control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

**Symptoms** No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

**Treatment** Treat symptomatically. In case of ingestion gastric lavage should be

considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium

sulphate is always advisable. There is no specific antidote.

## **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

Unsuitable High volume water jet

5.2 Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Carbon monoxide

(CO), Sulphur oxides

5.3 Advice for firefighters

Special protective

equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. In the event

of fire, wear self-contained breathing apparatus.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from

fire fighting to enter drains or water courses.



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### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

**Precautions** Avoid contact with spilled product or contaminated surfaces. Use

personal protective equipment.

6.2 Environmental

precautions

Contain contaminated water and fire fighting water. Do not allow to

get into surface water, drains and ground water.

6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up**Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in

suitable, closed containers for disposal.

6.4 Reference to other

sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

### **SECTION 7: HANDLING AND STORAGE**

## 7.1 Precautions for safe handling

Advice on safe handling No specific precautions required when handling unopened

packs/containers; follow relevant manual handling advice. Ensure

adequate ventilation. For personal protection see section 8.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes

separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly

before using again. Garments that cannot be cleaned must be

destroyed (burnt).

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Protect from freezing. Keep away from direct sunlight.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Refer to the label and/or leaflet.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

No control parameters known.

### 8.2 Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.



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Respiratory protection Respiratory protection is not required under anticipated

circumstances of exposure.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

**Hand protection** Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot

be removed. Wash hands frequently and always before eating,

drinking, smoking or using the toilet.

Material Nitrile rubber
Rate of permeability > 480 min
Glove thickness > 0,4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

**Eye protection** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection** Wear standard coveralls and Category 3 Type 6 suit.

If there is a risk of significant exposure, consider a higher protective

type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully

remove and dispose of as advised by manufacturer.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 Information on basic physical and chemical properties

Form Liquid, slightly turbid

Colour colourless
Odour slightly acidic

**pH** 4,0 - 7,0 at 100 % (23 °C)

Flash point > 100 °C

No flash point - Determination conducted up to the boiling point.

**Density** ca. 1,03 g/cm³ at 20 °C **Water solubility** miscible in all proportions

Partition coefficient: n-

octanol/water

Alkylethersulfate, sodium salt: log Pow: 0,3



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Viscosity, dynamic <= 300 mPaxs at 20 °C Surface tension 25,4 mN/m at 25 °C

**9.2 Other information** Further safety related physical-chemical data are not known.

### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity

**Thermal decomposition** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of**No hazardous reactions when stored and handled according to

**hazardous reactions** prescribed instructions.

**10.4 Conditions to avoid** Extremes of temperature and direct sunlight.

**10.5 Incompatible materials** Store only in the original container.

decomposition products

10.6 Hazardous

No decomposition products expected under normal conditions of use.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

Acute oral toxicity ATE (Mix) > 2.000 mg/kg

Calculation method Acute toxicity estimate

Acute inhalation toxicity

During intended and foreseen applications, no respirable aerosol is

formed.

Acute dermal toxicity ATE (Mix) > 2.000 mg/kg

Calculation method Acute toxicity estimate

**Skin irritation** Irritating to skin. (Rabbit)

Information refers to the main component.

**Eye irritation** Irritating to eyes. (Rabbit)

Test conducted with a similar formulation.

**Sensitisation** Non-sensitizing. (Guinea pig)

OECD Test Guideline 406, Magnusson & Kligman test

Information refers to the main component.

## Assessment repeated dose toxicity

Alkylethersulfate, sodium salt did not cause specific target organ toxicity in experimental animal studies.

## Assessment mutagenicity

Alkylethersulfate, sodium salt was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.



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# **Assessment carcinogenicity**

Alkylethersulfate, sodium salt was not carcinogenic in lifetime feeding studies in rats and mice.

## Assessment toxicity to reproduction

Alkylethersulfate, sodium salt did not cause reproductive toxicity in a two-generation study in rats.

## Assessment developmental toxicity

Alkylethersulfate, sodium salt did not cause developmental toxicity in rats and rabbits.

#### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

**Toxicity to fish** LC50 (Danio rerio (Zebra fish)) 7,1 mg/l

Exposure time: 96 h

Information refers to the main component.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 7,2 mg/l Exposure time: 48 h

Information refers to the main component.

Toxicity to aquatic plants NOEC (Desmodesmus subspicatus (green algae)) 0,93 mg/l

Exposure time: 72 h

Information refers to the main component.

EC50 (Desmodesmus subspicatus (green algae)) 27 mg/l

Exposure time: 72 h

Information refers to the main component.

12.2 Persistence and degradability

**Biodegradability** Alkylethersulfate, sodium salt:

rapidly biodegradable

12.3 Bioaccumulative potential

**Bioaccumulation** Alkylethersulfate, sodium salt:

Does not bioaccumulate.

12.4 Mobility in soil

**Mobility in soil** Alkylethersulfate, sodium salt: soluble in water

12.5 Results of PBT and vPvB assessment

**PBT and vPvB assessment** Alkylethersulfate, sodium salt: This substance is not considered to be

persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods



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**Product** In accordance with current regulations and, if necessary, after

consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging 
Not completely emptied packagings should be disposed of as

hazardous waste.

Waste key for the unused

product

**02 01 08\*** agrochemical waste containing dangerous substances

#### **SECTION 14: TRANSPORT INFORMATION**

## According to ADN/ADR/RID/IMDG/IATA not classified as dangerous goods.

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**14.1 – 14.5** Not applicable.

### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

# 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No transport in bulk according to the IBC Code.

## **SECTION 15: REGULATORY INFORMATION**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **Further information**

WHO-classification: III (Slightly hazardous)

#### 15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

## **SECTION 16: OTHER INFORMATION**

# Text of the hazard statements mentioned in Section 3

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

## Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by

**Inland Waterways** 

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road



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ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

Conc. Concentration

EC-No. European community number ECx Effective concentration to x %

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

EN European Standard EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code)

ICx Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

TWA Time weighted average

UN United Nations

WHO World health organisation

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

**Reason for Revision:** Safety Data Sheet according to Regulation (EU) No. 2015/830.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.