

#### SPINDASOL SB3

Issued on 10/30/2025 - Rel. # 6 on 10/30/2025

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In conformity to Regulation (EU) 2020/878

# SECTION 1. Identification of the substance/mixture and of the company/enterprise

#### 1.1. Product identifier

Product name: SPINDASOL SB3

This substance-mixture contains nanoforms (according to Reach Regulation)

Product code: refer to sales department

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

Clarifying Agents
Sectors of use:
Manufacture of food products[SU4]
Product category:
Technological adjuvant for beer use

Not recommended uses

Do not use for purposes other than those listed

## 1.3. Details of the supplier of the safety data sheet

AEB SpA - Via Vittorio Arici 104 S.Polo - 25134 Brescia (BS) Italy Tel. +39.030.2307.1 Fax +39.030.2307281 E-mail: info@aeb-group.com - Internet: www.aeb-group.com

E-mail tecnico competente/technical dept.: sds@aeb-group.com

AEB USA 111 N Cluff Avenue Lodi CA 95240 (USA)

Tel: +1 2096258139 Fax: +1 2092248953

Email: info@aebusa.com - Internet: www.aeb-group.com

AEB AFRICA (PTY) LTD 18 Track Crescent, Cor. Station Road Montague Gardens 7441 Cape Town (South Africa)

Tel.: +27 215512700 - Fax: +27 (0) 215511919

Email: info@aeb.co.za - Internet: www.aeb-group.com

AEB OCEANIA PTY LTD 178A Wakaden Street Griffith NSW 2680 T: 1300 704 971

Email: aeboceania@aeb-group.com - Internet: www.aeb-group.com

Produced by AEB SpA Via Vittorio Arici 104 S. Polo 25134 Brescia



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#### 1.4. Emergency telephone number

AEB SpA

Centralino/Switchboard: +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT +1; Lingua/Language: Italiano, English)

**AEB USA** 

111 N Cluff Avenue Lodi CA 95240 (USA)

Switchboard: +1 2096258139 (GMT -8; Language: English)

Fax: +12092248953

Email: info@aebusa.com - Internet: www.aeb-group.com

AEB AFRICA (PTY) LTD

Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

**AEB OCEANIA PTY LTD** 

Switchboard: +61 1300 704 971 (GMT +9; Language: English)

## **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

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

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Pictograms:

None

Hazard Class and Category Code(s):

Non hazardous

Hazard statement Code(s):

Non hazardous

#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

None

Hazard statement Code(s):

Non hazardous

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

None in particular.



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Ingredients: colloidal silica

For food, for brewing. Not intended for the final consumer. In accordance with current regulations on the specific matter.

#### 2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

Based on available data, no substances that disrupt the endocrine system are present according to Reg. (EU) 2017/2100 and 2018/605 in concentrations >0.1% w/w.

# SECTION 3. Composition/information on ingredients

#### 3.1 Substances

Irrilevant

#### 3.2 Mixtures

Amorphous silica, colloidal acqueous solution (23,5 - 25,5 % w/w) CAS 7631-86-9 Silicon dioxide, amorphous: Substance containing nanoforms (Regulation (EC) No 1907/2006) Particle information: Section 9 (experimental data)

## SECTION 4. First aid measures

#### 4.1. Description of first aid measures

## Inhalation:

Ventilate the area. Immediately remove the patient from the contaminated area and keep him or her at rest in a well-ventilated area. If you feel unwell, consult a doctor.

## Direct skin contact:

Remove shoes and clothing and wash thoroughly with soap and water. If you feel unwell, consult a doctor.

#### Direct eye contact:

Remove any contact lenses, protect the uninjured eye, and immediately flush with plenty of water for at least 10 minutes. If you feel unwell, consult a doctor.

#### Ingestion:

Rinse mouth immediately. Do not give anything to an unconscious person. If you feel unwell, consult a doctor.

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

No data available

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

If you feel unwell, go to a doctor or emergency room with this document. Symptomatic treatment.



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## **SECTION 5. Firefighting measures**

## 5.1. Extinguishing media

Recommended extinguishing media:

Water spray, CO2, foam, or chemical powders, depending on the materials involved in the fire.

Extinguishing media to avoid:

none in particular.

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

No data available

### 5.3. Advice for firefighters

Use respiratory protection, a safety helmet, and complete protective clothing. Self-contained breathing apparatus is recommended, especially if working in closed, poorly ventilated areas. Cool containers with water jets.

## **SECTION 6. Accidental release measures**

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

### 6.1.1 For non-emergency personnel:

Move away from the area surrounding the spill or release.

Do not smoke.

### 6.1.2 For emergency responders:

Wear personal protective equipment.

Eliminate all open flames and possible sources of ignition. Do not smoke.

Provide adequate ventilation. Evacuate the danger area and, if necessary, consult an expert.

#### 6.2. Environmental precautions

No special precautions are required.

## 6.3. Methods and material for containment and cleaning up

#### 6.3.1 Containment:

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert materia or sucked it. Prevent it from entering the sewer system.

#### 6.3.2 Cleaning up:

After wiping up, wash with water the area and materials involved



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6.3.3 Other information: None in particular.

## 6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

## **SECTION 7. Handling and storage**

## 7.1. Precautions for safe handling

Avoid contact and inhalation of vapors At work do not eat or drink. See also paragraph 8 below.

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

Keep in the tightly closed original container. Do not store in open or unlabeled containers. Keep containers upright and secure, avoiding the possibility of falling or knocking. Store in a clean, dry, and ventilated area, away from heat and direct sunlight (7-35°C) in the tightly closed original packaging. Do not freeze.

#### 7.3. Specific end use(s)

Manufacture of food products:

Keep in the tightly closed original container. Do not store in open or unlabeled containers. Keep containers upright and secure, avoiding the possibility of falling or knocking. Store in a clean, dry, and ventilated area, away from heat and direct sunlight (7-35°C) in the tightly closed original packaging. Do not freeze.

## SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

No data available.

### 8.2. Exposure controls

Appropriate engineering controls:

Manufacture of food products:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

#### 8.2.2 Individual protection measures:

(a) Eye / face protection

Not necessary for normal use, unless otherwise specified by the employer and/or by environmental hygiene assessments

- (b) Skin protection
- (i) Hand protection

Not necessary for normal use, unless otherwise specified by the employer and/or by environmental hygiene assessments.

Rubber and PVC gloves recommended

(ii) Other



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Wear normal work clothing.

#### (c) Respiratory protection

Not necessary for normal use, unless otherwise specified by the employer and/or by assessments of environmental hygiene investigations.

(d) Thermal hazards No hazard to report

Environmental exposure controls:

Use according to good working practices and avoid to disperse the product into the environment.

# **SECTION 9. Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	liquid	
Colour	clear opalescent	
Odour	slight	
Odour threshold	not available	
Melting point/freezing point	0 °C	
Boiling point or initial boiling point and boiling range	100 °C	
Flammability	not applicable	
Lower and upper explosion limit	not applicable	
Flash point	not applicable	ASTM D92
Auto-ignition temperature	nota applicable	
Decomposition temperature	not available	
рН	10,0 ± 0,5 (20 °C)	
Kinematic viscosity	Not available - Dynamic viscosity: <50mPa.s (20 °C)	
Solubility	not available	
Water solubility	dispersible	
Partition coefficient n-octanol/water (log value)	not applicable	
Vapour pressure	23 hPa approx.	
Density and/or relative density	1.05 - 1.25	
Relative vapour density	not available	
Particle characteristics	This substance-mixture contains nanoforms (according to Reach Regulation)	

# 9.2. Other information

Particle size 1-100 nm (ISO 22412)

Particle size distribution D50 = 11 nm ± 3 nm (ISO 22412)

Particle shape: spherical



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## 9.2.1 Information with regard to physical hazard classes

Irrilevant

#### 9.2.2 Other safety characteristics

Irrilevant

# **SECTION 10. Stability and reactivity**

## 10.1. Reactivity

No reactivity hazards

## 10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

## 10.3. Possibility of hazardous reactions

There are no hazardous reactions

#### 10.4. Conditions to avoid

The product should not be exposed to temperatures below 0°C. Avoid drying the solution as this may cause dust accumulation.

## 10.5. Incompatible materials

Acids; Mild Steel; Aluminum; Copper

# 10.6. Hazardous decomposition products

No dangerous decomposition compounds are known.

# **SECTION 11. Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) acute toxicity: based on available data the classification criteria are not met ATE(mix) oral = >5000 mg/Kg (estimated from tests on similar products)



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ATE(mix) dermal = Not classified (no relevant component) ATE(mix) inhal = 125.01 mg/l (calculation method)

- (b) skin corrosion/dermal irritation: based on available data the classification criteria are not met
- (c) severe eye damage/eye irritation: based on available data the classification criteria are not met
- (d) respiratory or skin sensitisation: based on available data the classification criteria are not met
- (e) germ cell mutagenicity: based on available data the classification criteria are not met
- (f) carcinogenicity: based on available data the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure: based on available data, the classification criteria are not met.
- (j) Aspiration hazard: based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

No data available.

11.2.1. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100 and Regulation (EU) 2018/605.

## SECTION 12. Ecological information

## 12.1. Toxicity

Acute toxicity - fish LC50 (mg/l/96h): >5000 (Zebra Fish, similar products)

Acute toxicity - crustaceans EC50 (mg/l/48h): 7600 (Cerodaphnia dubia, similar products)

Acute toxicity algae EC50 (mg/l/48h): 120 (Selenastrum Capricornutum, similar products), EC10 (mg/l/48h) 140

(Selenastrum Capricornutum, similar products)

Chronic toxicity - fish NOEC (mg/l): n.a.

Chronic toxicity - crustaceans NOEC (mg/l): n.a.

Chronic toxicity algae NOEC (mg/l/48h): 60 (Selenastrum Capricornutum, similar products)

C(E)L50 (mg/I) = 120 Acute toxicity Factor M = 1

NOEC (mg/l) = 60 Chronic toxicity Factor M = 1

Use according to good working practices and avoid to disperse the product into the environment.

## 12.2. Persistence and degradability

Not applicable (inorganic)

## 12.3. Bioaccumulative potential

Not bioaccumulative



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#### 12.4. Mobility in soil

Not mobile except in exceptional circumstances (soil-water)

#### 12.5. Results of PBT and vPvB assessment

Not classified as PBT and vPvB in conentration > 0.1%

## 12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100 and Regulation (EU) 2018/605.

#### 12.7. Other adverse effects

No adverse effects

## **SECTION 13. Disposal considerations**

## 13.1. Waste treatment methods

Any product residues must be disposed of in accordance with current regulations by contacting authorised companies. Do not reuse empty containers. Dispose of them in accordance with current regulations.

## **SECTION 14. Transport information**

## 14.1. UN number or ID number

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

## 14.2. UN proper shipping name

None

## 14.3. Transport hazard class(es)

None

### 14.4. Packing group

None

# 14.5. Environmental hazards

None



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### 14.6. Special precautions for user

No data available.

### 14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

## **SECTION 15. Regulatory information**

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

Restrictions relating to the product or substances contained therein (Annex XVII of Regulation (EC) No 1907/2006): not applicable

Substances on the Candidate List (Article 59 of Regulation (EC) No 1907/2006): the product does not contain SVHCs in a percentage ≥ 0.1%.

Seveso III class (Directive 2012/18/EU): not applicable

Regulation (EU) 649/2012 (import and export of chemicals): not applicable

Regulation (EU) 1169/2011: see point 2.2 Regulation (EU) 1308/2013; see point 2.2

## 15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

## SECTION 16. Other information

## 16.1. Other information

Points modified compared to previous release: 1.1. Product identifier, 2.3. Other hazards, 3.2 Mixtures, 4.1. Description of first aid measures, 4.2. Most important symptoms and effects, both acute and delayed, 4.3. Indication of any immediate medical attention and special treatment needed, 5.1. Extinguishing media, 5.2. Special hazards arising from the substance or mixture, 5.3. Advice for firefighters, 6.1. Personal precautions, protective equipment and emergency procedures, 7.3. Specific end use(s), 8.2. Exposure controls, 9.1. information on basic physical and chemical properties, 9.2. Other information, 10.2. Chemical stability, 10.3. Possibility of hazardous reactions, 10.4. Conditions to avoid, 10.5. Incompatible materials, 10.6. Hazardous decomposition products, 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 11.2. Information on other hazards, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 12.5. Results of PBT and vPvB assessment, 12.6. Endocrine disrupting properties, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

No hazard to report. Classification procedure: Calculation method

#### Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.



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Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable n.d.: not available

ADR: Accord europèen relative au transport International des merchandises dangereuses par route (European

Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimat
BFC: BioconCentration Factor
BOD: Biochemical Oxigen Demand
CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified

Chemical Substances)

CL50/LC50: Lethal Concentration 50

DL50/LD50: Lethal Dose 50 COD: Chemical Oxygen Demand DNEL: Derived No Effect Level

EC50: half maximal Effective Concentration

**ERC:** Enviroment Release Classes

EU/UE: European Union

IATA: International Air Transport Association ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods code

Kow: Octanol water partition coefficient

NOEC: No Observed Effect Concentration

OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative and Toxic

PC: Product Categories

PNEC: Predicted No Effect Concentration

PROC: Process Categories

RID: Règlement concernent le transport International ferroviaire des merchandises dangereuses (Regulations

concerning International rail transport of dangerous goods)

STOT: Target Organ Systemic Toxicity STOT (RE): Repeated Exposure STOT (SE): Single Exposure STP: Sewage Treatment Plants

SU: Sector of Use

SVCH: Substance of Very High Concern

TLV: Threshold Limit Value

vPvB: Verv Persistent Verv Bioaccumulative

### References and Sources:

ECHA Registered Substances:
 https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances

- SDS raw material supplier
- GESTIS International Limit Value: http://limitvalue.ifa.dguv.de

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\*\*\* this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: documentation update of supplier data.