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 (Reg. EC 1907/2006 REACH)
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

AAEB BRITAIN LTD - 5a Connaught Avenue, London, England, SW14 7RH

Tel:+442081332049

infoecommerce@aeb-group.com - www.aeb-group.com

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

1.4. Emergency telephone number

Emergency telephone number: 111
AEB BRITAIN LTD
Tel: +442081332049

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1Classification according to Regulation GB CLP:

This product does not meet the criteria for classification in any hazard class according to egulation GB CLP 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 GB CLP:

Pictogram, Signal Word Code(s):
None

Hazard statement Code(s):
Non hazardous

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

None in particular.

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 Reg. (EC) 1907/2006, annex XIII, in concentrations >0.1% w/w.

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Reg. (EU) 2017/2100 and Reg. (UE) 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 n. 7631-89-6

Silicon dioxide, amorphous:
Substance containing nanoforms (Reg EC 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.

Ingestion:Rinse mouth immediately. Do not give anything by mouth if the person is unconscious. If feeling unwellconsult 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.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suggested extinguishing media:
Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:

5.2. Special hazards arising from the substance or mixture

No one in particular

5.3. Advice for firefighters

Use protection for the breathing apparatus
Safety helmet and full protective clothing.
The water spray can be used to protect the people involved in the extinction.
You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas.
Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:
Leave 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:
Contain spills with inert material. Collect product for disposal.
Prevent from entering drains.

6.3.2 Cleaning up:
After collection, wash the affected area and materials with water.

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

Use in accordance with normal industrial hygiene measures.

Do not eat or drink while working.
See also section 8 below.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Manufacture of food products:
Handle with care. Store in a clean, dry, and ventilated area, away from heat and direct sunlight (7-35°C) in the original, tightly closed packaging. Do not freeze.
See packaging for batch number and best before date.

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 needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations.

(b) Skin protection

(i) Hand protection
Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations. Gloves: rubber and PVC

(ii) Other
Wear normal work clothing.

(c) Respiratory protection
Not needed for normal use, unless otherwise provided 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	opalescent liquid	
Colour	clear	
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 available	
Flash point	not available	ASTM D92
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	10,0 ± 0,5 (20°C)	
Kinematic viscosity	Not available - Dynamic viscosity Not available - Dynamic viscosity <50 mPa.s	
Solubility	not available	
Water solubility	dispersible	
Partition coefficient n-octanol/water (log value)	not available	
Vapour pressure	c.a. 23 hPa (20°C)	
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

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

Avoid dust formation

10.5. Incompatible materials

Aluminum, copper, mild steel

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

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

(b) skincorrosion/irritation: not classified (lack of data)
(c) serious eye damage/irritation: not classified (lack of data)
(d) respiratory or skinsensitisation: based on available data, the classification criteria are not met.
respiratory (Magnusson-Kligman method) does not cause sensitisation (similar products)
(e) germ cell mutagenicity: not classified (lack of data)
In vitro genotoxicity: Ames test - OECD 441 negative (similar products)
(f) carcinogenicity:not classified (lack of data)
(g) Reproductivetoxicity: not classified (lack of data)
(h) specific target organ toxicity (STOT) single exposure: not classified (lack of data)
(i) specific target organ toxicity (STOT) repeated exposure: not classified (lack of data).
(j) aspiration hazard: not classified (lack of data).

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 Regulations (EU) 2017/2100 and 2018/605 in concentrations >0.1%.

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/l) = 120 Acute toxicity M-factor = 1
NOEC (mg/l) = 60 Chronic toxicity M-factor = 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

12.4. Mobility in soil

Not mobile except in exceptional circumstances (soil-water)

2.5. Results of PBT and vPvB assessment

Does not contain substances considered PBT and vPvB in concentrations >0.1%

12.6. Endocrine disrupting properties

Does not contain substances considered to have endocrine disruption in concentrations >0.1%

12.7. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

Residual waste

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. Thismaterial and its container must be disposed of in a safe manner and in accordance with local/regional/national/ international regulations.

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

EU waste code
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information
Workers should wear appropriate personal protective equipment(s) such
as respirator.
Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Do not allow this material to drain into sewers/water supplies

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

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 contained substances (All. XVII Reg. Reach as amended): not applicable
Substances in Candidate List (art. 59 UK Reach): the product does not contain SVHC >0,1%
Substances subject to authorisation (Ann. XIV Reach as amended): the product does not contain SVHC >0,1%

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

Classification and procedure used to derive the classification for mixtures according to GB CLP:No hazard to report Main normative references:

Regulation (EC) 1272/2008 (CLP Regulation) as amended
Regulation (EC) No. 1907/2006, REACH as amended
Regulation (EU) No 1169/2011 of the European Parliament and of the Council as amended
Regulation (EC) No 1332/2008 of the European Parliament and of the Council
Regulation (EC) No 1333/2008 of the European Parliament and of the Council
Regulation (EC) No 1331/2008 of the European Parliament and of the Council
Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, as amended
Regulation (EC) No. 850/2004 On persistent organic pollutants, as amended
Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, as amended Regulation (EC) No. 166/2006 Pollutant Release and Transfer Registry, as amended
Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended
Commission Regulation(EC) No 1881/2006 on contaminants in food
EC 1935/2004 and EU 10/2011 as amended on Food Contact materials
EU regulations Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

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: Very Persistent Very BioaccumulativeReferences and Sources:

ECHA Registered Substances:
• https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances
• GB MCL-GB mandatory clas. and labelling list: https://www.hse.gov.uk/chemicalclassification/assets/docs/mcl-list.xlsx
• SDS supplier
• GESTIS International Limit Value: http://limitvalue.ifa.dguv.de
• HSE Great Britain limit values: https://www.hsl.gov.uk/

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