

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

1.1. Product identifier

Product name : POLYGEL BH
Product code: refer to sales department

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

Sectors of use:
Manufacture of food products[SU4]
Product category:
Selective clarifier and stabiliser from the brewery.

Not recommended uses
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

AEB BRITAIN LTD - 5a Connaught Avenue, London, England, SW14 7RH -
Tel: +442081332049
infoecommerce@aeb-group.com - www.aeb-group.com

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

2.1.1 Classification according to Regulation GB CLP:

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):
EUH210 - Safety data sheet available on request.

Precautionary statements:
None in particular.

Ingredients: synthetic amorphous silica, polyvinylpolypyrrolidone (PVPP).
FOR FOOD, FOR BREWING.

2.3. Other hazards

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation No. 1907/2006 (Reach) as amended, Annex XIII

SECTION 3. Composition/information on ingredients

3.1 Substances

Not relevant

3.2 Mixtures

No dangerous substance to report.

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH / UK REACH
<i>Synthetic amorphous silica</i> substance for which there are Community workplace exposure limits	>= 50 < 100%			112926-00-8	231-545-4	01-2119379 499-16-xxxx

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Not dangerous. In case of malaise 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

No data available.

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:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

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

Wear gloves and protective clothing

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provide a sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spills

Inform the competent authorities.

Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:

Recover the product for reuse, if possible, or for elimination.

6.3.2 Cleaning up:

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

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

Do not eat or drink while handling.

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Manufacture of food products:
Handle with care.
Store in a clean, dry, ventilated area away from heat and direct sunlight.
Keep container tightly closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

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Related to contained substances:

Silica Gel:

Silica gel (45% synthetic amorphous silica hydrated)

silica, amorphous

Limit value - Eight hours
(ppm)/(mg/m³)

Australia: -/2 (1)

Austria: -/4 inhalable aerosol

Belgio: -/10

Canada – Ontario: -/10

Canada - Québec: -/6(1)

Denmark: 0-/ 2 inhalable aerosol

Finland: -/5

Germany (AGS): -/4 inhalable aerosol

Germany (DFG): -/4 (1)

Ireland: -/6 (1); -/2,4 (2)

Latvia: -/1

New Zealand: -/1

People's Republic of China: -/2(1)

Poland: -/10(1); -/2 (2)

Singapore: -/10

South Korea: -/10

Switzerland: -/4 inhalable aerosol aerosol

USA - OSHA: 80% silica totale dust

United Kingdom: -/6 inhalable aerosol; -/2,4 respirable aerosol

Limit value - Short term
(ppm)/(mg/m³)

Denmark: -/4 inhalable aerosol

Australia (1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

Canada - Québec (1) Respirable fraction

Germany (DFG) (1) Inhalable fraction

Ireland (1) Inhalable fraction (2) Respirable fraction

People's Republic of China (1) Inhalable fraction

Poland (1) Inhalable fraction (2) Respirable fraction

L'ACGIH® considers that biologically inert particles, insoluble or insoluble particles can also have adverse effects and

therefore recommends that the concentration of such dusts in the air be kept below: 3 mg/m³, for respirable particles; 10 mg/m³, for inhalable particles, until a TLV is established for the particular substance.

- Substance: Silica Gel

DNEL

Local effects Long term Workers inhalation = 4 (mg/m³)

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. 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

(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
Appearance	very fine white powder	
Odour	Not determined because it is considered not relevant for characterization of the product	
Odour threshold	Not determined because it is considered not relevant for characterization of the product	
pH	6,5 ± 0,5 (20°C, sol. 5%)	
Melting point/freezing point	Not determined because it is considered not relevant for characterization of the product	
Initial boiling point and boiling range	Not determined because it is considered not relevant for characterization of the product	
Flash point	Not determined because it is considered not relevant for characterization of the product	ASTM D92
Evaporation rate	Not determined because it is considered not relevant for characterization of the product	
Flammability (solid, gas)	Not determined because it is considered not relevant for characterization of the product	
Upper/lower flammability or explosive limits	Not determined because it is considered not relevant for characterization of the product	
Vapour pressure	Not determined because it is considered not relevant for characterization of the product	
Vapour density	Not determined because it is considered not relevant for characterization of the product	
Relative density	0,25 ± 0,05 (20°C)	
Solubility	insoluble	
Water solubility	insoluble	
Partition coefficient: n-octanol/water	Not determined because it is considered not relevant for characterization of the product	
Auto-ignition temperature	Not determined because it is considered not relevant for characterization of the product	
Decomposition temperature	Not determined because it is considered not relevant for characterization of the product	
Viscosity	Not determined because it is considered not relevant for characterization of the product	
Explosive properties	Not determined because it is considered not relevant for characterization of the product	
Oxidising properties	Not determined because it is considered not relevant for characterization of the product	

9.2. Other information

No data available.

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 sources of heat

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

(a) acute toxicity: Silica Gel: Silicel gel (45% hydrated amorphous synthetic silica)

Amorphous silica

Ingestion - LD50 rat (mg / kg / 24h bw):> 3100

Skin contact - LC50 rat / rabbit (mg / kg / 24h bw):> 5000

Inhalation - LD50 rat (mg / l / 4h): na

It has little harmful effect on poulosis and does not cause any noteworthy diseases or toxic effects. However, exposure to dust can aggravate existing conditions such as asthma and bronchitis

(b) skin corrosion/irritation Silica Gel: Not corrosive

Silica Gel: Non-irritating Dust can have a dehydrating effect

(c) serious eye damage/irritation: Silica Gel: Not corrosive

Silica Gel: Not irritating. Dust can cause discomfort and mild irritation

(d) respiratory or skin sensitization: Silica Gel: Not sensitizing

(e) germ cell mutagenicity: Silica Gel: Not mutagenic

(f) carcinogenicity: Silica Gel: Not carcinogenic

(g) reproductive toxicity: Silica Gel: No evidence of danger

(h) specific target organ toxicity (STOT) single exposure: Silica Gel: Non toxic

(i) specific target organ toxicity (STOT) repeated exposure Silica Gel: Amorphous silica
Non-toxic NOAEL oral rat:> 4000 mg / kg body weight / day

(j) aspiration hazard: Silica Gel: Non-toxic by aspiration

Health Hazards:

Eye contact: Accidental contact of product with eyes may cause irritation.

Skin Contact: Product is not an irritant. Prolonged or repeated contact may defeat and irritate the skin and cause dermatitis in some cases.

Ingestion: The ingested product may cause irritation of the mucous membranes of the throat and digestive system leading to digestive symptoms and abnormal bowel disorders.

Inhalation: Prolonged exposure to vapours or mists of product may cause respiratory irritation.

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

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Related to contained substances:

Silica Gel:

Silicel gel (45% hydrated amorphous synthetic silica)

Amorphous silica Acute toxicity - fish LC50 (mg / l / 96h):> 10000

Acute toxicity - crustaceans EC50 (mg / l / 24h):> 10000

Acute toxicity algae ErC50 (mg / l / 72-96h): na

Chronic toxicity - fish NOEC (mg / l): na

Chronic toxicity - shellfish NOEC (mg / l): na

Chronic toxicity algae NOEC (mg / l): na

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

12.2. Persistence and degradability

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Related to contained substances:

Silica Gel:

Not applicable (inorganic)

12.3. Bioaccumulative potential

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Related to contained substances:

Silica Gel:

Not applicable (inorganic)

12.4. Mobility in soil

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Related to contained substances:

Silica Gel:

Not applicable

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Residual waste

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material 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

Incinerate. Incinerator should be appropriately for this product. 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

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. Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

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 Reach as amended): the product does not contain SVHC
Substances subject to authorisation (Ann. XIV Reach as amended): the product does not contain SVHC

Reg. (EC) n. 1169/2011 as amended: see 2.2

Reg. (EC) n. 1333/2008 as amended: see 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 based on data of all mixture components

Procedure used to classify under CLP mixture (Reg . EC 1272/2008): Not relevant

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 européen relative au transport International des marchandises 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 marchandises 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 Bioaccumulative.

References 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/](https://www.hse.gov.uk/chemicalclassification/assets/docs/mcl-list.xlsx)

[chemicalclassification/
assets/docs/mcl-list.xlsx](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/>

This msds was made in good faith by AEB technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

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

Changes to the previous edition: first issue.