

Revision: 20th February 2019 version 3.0 supersedes version 2.0 (29.06.18)**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product name: EXPANDED PERLITE (ALL GRADES)
Substance: Perlite
EC No.: 603-442-8
REACH Registration: Exempt – see [section 3](#)
CAS No.: 130885-09-5
Other names: P05 Ultrafine, P3 Cryogenic, P6 Extra Fine, P10 Super Fine, P15 Medium, P25 Special, P35 Standard, PCLG Chimney Lining Grade, P321 Through Grade, P45 Super Coarse

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

- Horticulture, Construction Materials, Filtration Aid, Thermal Insulation, Spill Absorption, Refractories.

Uses advised against and reason:

- None identified.

1.3 Details of the supplier of the safety data sheet

Supplier: Hoben International Limited.
Address: Manystones Lane, Brassington, Matlock, Derbyshire.
Postcode / Country: DE4 4HF / United Kingdom.
Telephone / Fax: +44 (0) 1629 540201 / +44 (0) 1629 540605
Email: sales@hobeninternational.com – Email subject: *SDS Enquiry*
National Contact: UKREACHCA@hse.gov.uk

1.4 Emergency telephone number

Contact: +44 (0) 1629 540201
Language: English
Opening hours: Available Monday to Friday (not bank holidays), 8 am to 5 pm (UK time)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:**

Non-hazardous substance - this product does not meet the criteria for classification in any hazard class.
A safety data sheet is supplied, upon request, as there is a workplace exposure limit for this substance.

2.1.2 Additional Information

[Section 8](#) gives further information on the workplace exposure limit.

2.2 Label elements**2.2.1 Labelling according Regulation (EC) No 1272/2008 [CLP]:****Hazard Pictogram(s)**

None

Signal word

None

Hazard statement(s)

None

Precautionary statement(s)

None

Supplemental Hazard Information

None

2.3 Other hazards

Depending on the handling and use, airborne dust may be generated. Dust may contain respirable crystalline silica. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. The product contains less than 1% crystalline silica and does not need to be classified or labelled.

This substance does not meet the criteria for PBT or vPvB according to Annex XIII of the REACH regulations.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Chemical Name	EC No.	CAS No.	% Weight	REACH Registration No.	CLP classification according to Regulation (EC) 1272/2008
Perlite*	603-442-8	130885-09-5	90 - 100 %	Exempt in accordance with Annex V.7	Not Classified.

*The Perlite used in this product is the thermally expanded form of a beneficiated mineral ore classified as a UVCB material under REACH. (Unknown or Variable composition, Complex reaction products or of Biological materials.)

3.2 Mixtures

Not applicable

SECTION 4: First aid measures**4.1 Description of first aid measures****4.1.1 General Information:**

No serious adverse effects are anticipated.

If seeking medical advice - show this SDS to the medical professional.

4.1.2 Following inhalation:

Remove exposed person to fresh air, keep warm and at rest.

If respiratory irritation persists, seek medical advice.

4.1.3 Following skin contact:

If irritation occurs then wash affected skin with plenty of soap and water.

Get medical attention if irritation persists after washing.

4.1.4 Following eye contact:

Immediately flush with clean water or eye wash solution, holding the eyelids apart for at least 15 minutes.

Seek medical attention if irritation persists.

4.1.5 Following ingestion:

There are no known adverse effects for small quantities and hence first aid measures are not usually required.

For larger quantities, wash mouth out with water and give water to drink.

Do not induce vomiting.

If gastrointestinal symptoms occur then seek medical advice.

4.1.6 Self-protection of the first aider:

Wear gloves to protect against skin irritation.

4.2 Most important symptoms and effects, both acute and delayed**4.2.1 General information:**

Significant acute or delayed effects are not anticipated.

4.2.2 Symptoms and effects:

Dust from this product may cause temporary irritation of the skin and/or eyes.

4.3 Indication of any immediate medical attention and special treatment needed**4.3.1 Specific treatment:**

Medical attention or special treatments are not usually required.

4.3.2 Notes for the doctor:

Treat symptomatically, no special antidote required.

SECTION 5: Firefighting measures**5.1 Extinguishing media****5.1.1 General information:**

Non-combustible substance; however, packaging and surrounding materials may be combustible.

5.1.2 Suitable extinguishing media:

Use an extinguishing agent suitable for the surrounding fire.

5.1.3 Unsuitable extinguishing media:

No product-specific restrictions.

5.2 Special hazards arising from the substance or mixture**5.2.1 General information:**

Non-combustible substance.

5.2.2 Hazardous combustion products:

No hazardous thermal decomposition products.

5.3 Advice for firefighters

Fire fighters should wear the PPE designated for the area.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel:**

Use personal protective equipment ([Section 8](#)) to protect eyes, skin and clothing.
Avoid dust formation.

6.1.2 For emergency responders:

Use personal protective equipment, see [Section 8](#).

6.2 Environmental precautions

No special requirement. Wastes generated during application and spillages are not considered hazardous.
Dispose of according to local legislation.

6.3 Methods and material for containment and cleaning up**6.3.1 For containment:**

Clear spills immediately.
Wet down larger spills to prevent dust dispersal by wind or local traffic.

6.3.2 For cleaning up:

Vacuum or wet sweep and transfer, e.g. shovel, in to a suitable, labelled container.

6.3.3 Disposal and other information:

Clear spills immediately.
Dispose of in compliance with local and national regulations.

6.4 Reference to other sections

Suitable personal protective equipment is quoted in [Section 8](#).
Further information on waste and disposal is given in [Section 13](#).

SECTION 7: Handling and storage**7.1 Precautions for safe handling****7.1.1 Protective Measures:**

Avoid airborne dust generation.
Wear personal protective equipment (see [Section 8](#)).

7.1.2 Measures to prevent fire:

This product is non-flammable; no special fire protection measures are necessary.

7.1.3 Measures to prevent aerosol and dust generation:

Reseal packaging when not in use.
Use engineering measures (e.g. local dust extraction) to provide effective control of dust from dry product or aerosol particulates in order to ensure compliance with the current Occupational Exposure Limits.

7.1.4 Measures to protect the environment:

Do not dispose of excess material or spillages into the drains.

7.1.5 Advice on general occupational hygiene:

Wash hands after use and regularly during use especially if contaminated.

In working areas do not eat, drink or smoke when using this product.

Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for storage, including any incompatibilities

7.2.1 Technical measures and storage conditions:

Store in original packaging.

Protect packaging from damage.

7.2.2 Requirements for storage rooms and vessels:

Replace lids when not in use.

7.2.3 Further information on storage:

None.

7.3 Specific end use(s)

Recommendations:

Wear a suitable mask if local dust extraction does not reduce dust levels below the WEL (See [Section 8](#)).

Wear protective clothing including gloves and goggles.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Substance	CAS Number	EH40/2005 Workplace exposure limits
Perlite	130885-09-5	Substance not listed in EH40/2005 For WELs; treat as nuisance dust (section 44) 10 mg m ⁻³ (Inhalable) / 4 mg m ⁻³ (Respirable)
Silica, respirable crystalline	14808-60-7	0.1 mg m ⁻³ UK WEL: 8 h TWA (Respirable)

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Local dust extraction.

Apply organisational measures, e.g. by isolating non-essential personal from dusty areas.

8.2.2 Individual protection measures:

Hands: Protective gloves if required – no specific type recommended.

Wash hands after each work session.

Eyes: Goggles or mask – no specific type recommended.

Skin: Wear appropriate PPE, protective work clothing. Wash contaminated clothing before reuse

Respiratory: In cases of prolonged exposure to airborne dust or aerosol concentrations, wear respiratory protective equipment that complies with European or national legislation – no specific recommendation.

General: Protective overalls. Soiled clothing must be adequately laundered to avoid becoming a dust source.

8.2.3 Environmental exposure controls:

Use appropriate engineering controls to prevent dust escaping to the atmosphere.

Avoid wind dispersal.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a) **Appearance:** White graded material <7 mm depending on specification
- b) **Odour:** Odourless.
- c) **Odour threshold:** Not applicable – odourless.
- d) **pH:** 6.5 – 7.5 (10% solids in water suspension).

e) Melting point/freezing point;	Melting point approx. 1280 °C.
f) Initial boiling point and boiling range:	Not applicable – Dry solid material.
g) Flash point:	Not applicable – Not flammable
h) Evaporation rate:	Not applicable – Dry solid material.
i) Flammability (solid, gas):	Not flammable
j) Upper/lower flammability or explosive limits:	Not applicable – not flammable or explosive.
k) Vapour pressure:	No data available
l) Vapour density:	No data available
m) Relative density:	Approx. 2.2 – 2.4 (Perlite mineral density).
n) Solubility(ies):	Not soluble.
o) Partition coefficient: n-octanol/water:	No data available
p) Auto-ignition temperature:	No data available
q) Decomposition temperature:	No data available
r) Viscosity:	Not applicable – Dry solid material.
s) Explosive properties:	Not explosive
t) Oxidising properties:	No data available. The substance, however, does not contain a surplus of oxygen or any structural groups known to be correlated with a tendency to react exothermally with combustible material.

9.2 Other information

None available

SECTION 10: Stability and reactivity

10.1 Reactivity

Inert.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None anticipated.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

None anticipated.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

a) Acute Toxicity

Classification criteria are not met.

b) Skin corrosion/irritation

None anticipated.

c) Serious eye damage/irritation

Mild irritation to eyes..

d) Respiratory or skin sensitisation

Perlite may cause a mild irritation of the upper respiratory tract and is not considered to be a skin sensitiser .

e) Germ cell mutagenicity

No evidence of mutagenicity.

f) Carcinogenicity

No classification for carcinogenicity .

g) Reproductive toxicity

No evidence of reproductive toxicity.

h) STOT-single exposure

Not classified.

i) STOT-repeated exposure

With the concentration of quartz being less than 1% in this product overexposure to quartz is not expected at the given concentrations present, but quartz / cristobalite is a confirmed human carcinogen. Repeated inhalation of quartz over time may cause fibrotic lung disease and respiratory cancer.

j) Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on likely routes of exposure

The most likely route for exposure is by skin contact or via airborne dust produced by self attrition.

11.3 Other information

None.

SECTION 12: Ecological information**12.1 Toxicity**

Based on field studies this product is not toxic not classified as harmful to aquatic life.

12.2 Persistence and degradability

Not biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Not classified as PBT / vPvB.

No components are included in the EU candidate list of substances of very high concern (SVHCs).

12.6 Other adverse effects

No adverse effects expected if regulations and advice for storage and handling are observed.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

This product is not classified as hazardous waste under the EC Directive 2008/98/EC or as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No.894.

Dispose of according to national / regional legislation.

SECTION 14: Transport information**14.1 UN number**

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not classified.

14.4 Packing group

Not classified.

14.5 Environmental hazards

Not classified.

14.6 Special precautions for user

Not applicable.

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

Not applicable.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU REGULATIONS****Regulation (EC) No. 2037/2000 (substances that deplete ozone)**

Not applicable

Regulation (EC) No. 850/2004 (persistent organic pollutants)

Not applicable

Regulation (EC) No.689/2008 (concerning the export and import of dangerous chemicals)

Not applicable

Regulation (EC) No. 1272/2008 (Classification, Labelling and Packaging of substances and mixtures)

This material does not meet any of the criteria.

Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)

The mineral Perlite is a naturally occurring product and, hence, article 2 (7) (b) and Annex V paragraph 7 of the REACH regulations exempts this material from REACH registration.

US FEDERAL REGULATIONS

Perlite is not listed on the United States TSCA (Toxic Substances Control Act) inventory.

Source of Reference for OELs

HSE EH40 for Workplace Exposure Limits

15.2 Chemical safety assessment

No chemical safety assessment has been carried out by the supplier.

SECTION 16: Other information**i. Indication of changes**

Version 3.0

New SDS or revisions to comply with:

- REACH regulations up to and including Commission Regulation (EU) 2018/589 of 18th Apr 2018 (consolidated up to M48) and further amended by Commission Regulation (EU) 2018/675 of 2nd May 2018.
- CLP regulations up to and including Commission Regulation (EU) 2017/776 of 4th May 2017 (consolidated up to M14) and further amended by Commission Regulation (EU) 2017/542 of 22nd Mar 2017, Commission Regulation (EU) 2018/669 of 16th Apr 2018 and Commission Regulation (EU) 2018/1480 of 4th Oct 2018.

ii. Abbreviations and acronyms

REACH: Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals.

CLP: Regulation (EC) No 1272/2008 on the Classification, Labelling and Packaging of substances and mixtures.

WEL: 8 h TWA – Workplace Exposure Limit: 8 hour Time Weighted Average

iii. Key Literature References and Sources of Data

- Guidance Note EH40 Occupational Exposure Limits is published annually by the Health and Safety Executive. The latest relevant limits should be observed.
- HS(G) 37 1993 "An introduction to Local Exhaust Ventilation" and Guidance Note EH44 2013 "Dust in the Work Place" are both available from HM Stationery Office.
- Advice on respiratory protective equipment is also given in BS EN 529:2005.
- EN166: 2002 Personal Eye Protection.

iv. Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 CLP

This material is not classified under this regulation.

v. Training Advice

All employees should be given adequate training in the proper use and handling of this product and any precautions and protective equipment required under applicable regulations

The information given on this Safety Data Sheet is to the best of Hoben International's knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of the information for their own particular use.