Pararock

Product Ref: (DsC61-0318)
Issue No: 01

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product name: Pararock

Product type: Stone wool insulation.

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

Thermal insulation, acoustic insulation and fire protection in building construction applications.
No uses advised against for physical, health and environmental considerations as covered by REACH.
In terms of site use, the product shall be used in accordance with the Langley project specific specification.

1.2. Details of the supplier of the health and safety data sheet

Langley Waterproofing Systems Limited, Lamport Drive, Daventry, NN11 8YH
Email of the person responsible: technical@langley.co.uk

1.3. Emergency telephone number:

Langley Waterproofing Systems Limited Tel: 01327 704778.

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

There is no hazard statement associated with this material. Pararock stone wool is not classified as dangerous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP).

2.2. Label elements

The overall conclusion in accordance with the CLP regulation, REACH registration, and the Globally Harmonised System (GHS) is that there are no hazardous classifications associated with Pararock fibres with respect to physical, health and environmental considerations.

2.3. Other hazards

Use of high-speed cutting tools can generate dust.
If in contact with constant heat >175°C, the binder will be slowly broken down.
Further information can be found in Section 8.

3. COMPOSITION / INGREDIENTS OF THE PRODUCT

3.1. Substances

Substance	EC identification number	REACH registration number	Content (% weight)	Classification, labelling and packaging (EU Regulation (CE) 1272 / 2008)
Stone wool1	926-099-9	01-211-947-2313-44	95-100%	-
Synthetic thermosetting polymer binder	-	-	0-5%	-
Mineral oil	-	-	0-0.5%	-
Silicon oil/emulsion3	-	-	0-0.5%	-

3.2. Facing materials

Pararock is supplied with a glass mineral fibre fleece facing to the top surface only. Underlay boards have no facings.

1. Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide ($Na_2O+K_2O+CaO+MgO+BaO$) content greater than 18% by weight and fulfilling one of the Nota Q conditions of Regulation 1272/2008.
2. Not classified H351 “suspected of causing cancer”. Stone wool fibres are not classified carcinogenic according to the Nota Q of Regulation 1272/2008. Pararock stone wool products do not contain CLP classified substances >0.1%.
3. Silicon oil/emulsion is used in place of mineral oil in certain Pararock products.

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:
Remove from exposure. Rinse the throat and clear dust from airways.

Skin:
If itching occurs, remove contaminated clothing and wash skin gently with cold water and mild soap.

Eye:
Rinse abundantly with water for at least 15 minutes.

Ingestion:
Drink plenty of water if accidentally ingested.

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

The mechanical effect of coarse fibres in contact with throat, skin or eyes may cause temporary itching/ inconvenience.

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

None required. If any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:
Water, foam, carbon dioxide (CO_2), and dry powder

Unsuitable extinguishing media:
None

5.2. Special hazards arising from the substance or mixture

None special. Use normal body and respiratory protection for fire.

5.3. Advice for firefighters

The unfaced products are non-combustible, some packaging materials or facings may, however, be combustible.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

In case of presence of high concentrations of dust, use the same personal protective equipment as mentioned in section 8.

6.2. Environmental precautions

None required

6.3. Methods and materials for containment and cleaning up

Vacuum cleaner or dampen with water spray prior to sweeping up.

6.4. Reference to other sections

For personal protection equipment, see section 8. For waste disposal, see section 13.

None: The product is solid, compact and not dangerous.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

No specific measures. Preferably use a knife for cutting. If a power tool is used, provide effective dust extraction. Ensure adequate ventilation of workplace. See section 8. Avoid unnecessary handling of unwrapped product. See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures:
No special measures are necessary.

Suitable storage conditions:
Products should be kept dry, if possible in original packaging.

Incompatible materials:
None.

Packaging material:
Products are typically packed in polyethylene film, cardboard and/or on wooden pallets.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Workplace exposure limit (WEL) 5mg/m^3 gravimetric measure (total inhalable dust) and 2 fibres/ml airborne fibre limit, 8-hour time weighted averages. HSE guidance assumes that the gravimetric measure would be reached before the fibre measure. (Ref. HSE EH40).

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No specific requirements

8.2.2. Individual protection measures, such as personal protective equipment

Eye protection:
Wear goggles if working above shoulders or where there is heavy dust development. Eye protection to EN 166 is advised.

Hand protection:
Use gloves conforming with EN 388 to avoid itching.

Skin protection:
Cover exposed skin.

Respiratory protection:
When working in unventilated areas or during operations which can generate emission of (various) dusts, wearing a disposable face mask in accordance with EN 149 FFP1 is recommended. At high temperatures not usually found in building construction (>175°C), the product binder will slowly decompose and trace gases will be released. When high-temperature appliances are first put into service, gases should be vented to control exposure to fumes or appropriate respirators used.

The following text and pictograms are printed on packaging:

The mechanical effect of fibres in contact with skin may cause temporary itching.

Cover exposed skin. When working in an unventilated area, wear a disposable face mask.

Rinse in cold water before washing.

Clean area using vacuum equipment.

Ventilate working area if possible.

Waste should be disposed of according to local regulations.

Wear goggles when working overhead.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a)	**Appearance:**	Solid, grey-green
b)	**Odour:**	Odourless
c)	**Odour threshold:**	Not relevant. No odour
d)	**pH:**	Not relevant. Solid
e)	**Melting point:**	>1000°C
f)	**Initial boiling point and range:**	Not relevant. Solid
g)	**Flashpoint:**	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)
h)	**Evaporation rate:**	Not relevant. Solid
i)	**Flammability:**	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)
j)	**Upper/lower flammability or explosive limits:**	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)
k)	**Vapour pressure:**	Not relevant. Solid
l)	**Vapour density:**	Not relevant. Solid
m)	**Relative density:**	Depends on product (typ. between 20 and 300 kg/m3)
n)	**Solubility (ies):**	Generally, chemically inert and insoluble in water
o)	**Partition coefficient n-octanol/water:**	Not relevant. Insoluble in water
p)	**Auto-ignition temperature:**	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)
q)	**Decomposition temperature:**	When heated to approx 175oC for the first time, the release of binder decomposition products occurs
r)	**Viscosity:**	Not relevant. Solid
s)	**Explosive properties:**	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)
t)	**Oxidising properties:**	Not relevant. Non-oxidising

9.2. Other information

No further chemical or physical properties to report.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

Not reactive

10.4. Conditions to avoid

None specified

10.5. Incompatible materials

None specified

10.6. Hazardous decomposition products

When heated to approx 175oC for the first time, the release of binder decomposition products occurs. See 8.2.2

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

a) **Acute toxicity**
No acute toxicity

b) **Irritation**
In the case of coarser fibres, there can be mechanical effects on skin, the upper respiratory system (mucous membranes) and eyes that can cause temporary, self-fading effects (e.g. itching). No chemical effects ensue.

c) **Corrosivity**
No corrosivity

d) **Sensitisation**
No sensitisation

e) **Repeated dose toxicity**
No repeated dose toxicity

f) **Carcinogenicity**
None. Owing to its high bio-solubility, the fibre used in Pararock stone wool insulation materials is assessed as free from suspicion of possible carcinogenic effects in accordance with Regulation (EC) No 1272/2008 (ref. Nota Q). In October 2001, the International Agency for Research on Cancer (IARC) classified rock (stone) wool insulation as Group 3 (not classifiable as to its carcinogenicity in humans) i.e. not suspected of causing cancer in humans.

g) **Mutagenicity**
No mutagenicity

h) **Toxicity for reproduction**
No toxicity for reproduction

12. ECOLOGICAL INFORMATION

12.1. Toxicity

None. This product is not expected to cause harm to animals or plants during normal conditions of use. Stone wool is principally made from non-scarce rock material and recycled stone wool.

12.2. Persistence and degradability

None

12.3. Bioaccumulative potential

None

12.4. Mobility in soil

None

12.5. Results of PBT and vPvB assessment

No assessment required

12.6. Other adverse effects

Relying on entrapped air for its thermal properties, the products do not, and never have used blowing agents with Ozone Depleting Potential or Global Warming Potential. No flame retardants are added.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Pararock material is recyclable. Please refer to our Technical Services department for further information. Pararock insulation is classified as non-hazardous waste. Pararock insulation waste is covered by the non-hazardous entry “17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03” in the European Waste Catalogue, established by EC Decision 2000/532/EC (hazardous waste). Under landfill regulations, Pararock insulation waste is categorised as “waste accepted at landfills for non- hazardous waste” in accordance with EC Decision 2003/33/EC (landfill acceptance criteria).

14. TRANSPORT INFORMATION

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

None specified

15. REGULATORY INFORMATION

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

The overall conclusion in accordance with the CLP, GHS and REACH regulations is that there are no hazardous classifications associated with Pararock fibres concerning physical, health and environmental aspects.

15.2. Chemical safety assessment

No assessment required

16. OTHER INFORMATION

This Health and Safety Data Sheet has been prepared in accordance with European Commission Regulation (EU) No. 453/2010 (REACH).

Although REACH Regulations do not require a safety data sheet to be provided for Pararock stone wool insulation, this format is used by Langley Waterproofing Systems Limited to provide standardised health and safety information.

All stone wool insulation products supplied by Langley Waterproofing Systems Limited are made of fibres exonerated from classification as a carcinogen in accordance with Regulation (EC) No. 1272/2008 (ref. Nota Q).

Pararock fibres are subject to independent assessment by EUCEB.

Membership of the EUCEB certification scheme is voluntary and certifies compliance with the parameters laid down in Nota Q, as defined by Regulation (EC) No. 1272/2008.

This data sheet does not constitute a workplace assessment.

The information provided represents the state of our knowledge regarding this material at the date of its publication.

The information provided does not constitute a product specification and no warranty expressed or implied is hereby made.

The information relates only to the specific material designated when used in applications it has been designed for. This information may not be valid for such material used in combination with any other materials or in any other processes unless specified in the text.

17. LEGAL DISCLAIMER

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product. The information contained in this data sheet does not constitute an assessment of workplace risk as required by current legislation. While every care is taken to see that the information is correct and up to date, it is not intended to form part of any contract or give rise to any collateral liability, which is at this moment specifically excluded.

For further information, contact Langley Technical Services at Langley House, Lamport Drive, Heartlands Business Park, Daventry, Northamptonshire, NN11 8YH. Telephone (01327) 704778.

This document is only a guide.
Langley Waterproofing Systems Ltd reserves the right to change the composition and fixing recommendations of products as a result of the evolution of knowledge and technology.