

PRODUCT SAFETY DATA SHEET

This generic SDS is provided by MGS Ltd to give information to assist with material handling of the products listed which are not classified as hazardous under the GHS and / or CLP regulations.



Doc No:	HS8 C42-053
Version:	MGS 4/JS
Date:	October 2023
Review Date:	October 2024

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1 Product Identifier

Product Name: GSL Connect Plus

Synonyms / Trade Name: GSL Connect Plus

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

Recommended Use: Geothermal grout

Restriction on Use: N/A

1.3 Details of the supplier of the Safety Data Sheet

Name: MGS Ltd

Address: Rougham Industrial Estate, Bury St Edmunds, IP30 9ND

Country: UK

Phone N°: +44 1359 271167

E-mail: info@mgs.co.uk

Website: www.mgs.co.uk

1.4 Emergency telephone number

Emergency telephone at the company +44 7738 197 517

Available outside office hours: Yes

Language of the phone service: English

E-mail of competent person responsible darren.portway@mgs.co.uk

National contact: Darren Portway

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

REACH registration number: Exempt

CAS number: 1302-78-9

EC number: 215-108-5

2.2 Label elements

Hazard Statement: Not classified as hazardous according to Regulation (EC) No. 1272/2008

Precautionary Statement: Not classified as hazardous according to Regulation (EC) No. 1272/2008

2.3 Other hazards

No other identified hazards.

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SECTION 3: Composition / Information on Ingredients

3.1 Substances

Product / ingredient name	%	CAS No	EC No	Classification
				Regulation (EC) No. 1272/2008 [CLP]
Bentonite	~50	1302-78-9	215-108-5	Not classified
Calcium Carbonate	1.5 - 10	471-34-1	207-439-9	Not classified
Magnesium Silicate	~25	14807-96-6	238-877-9	Not classified
Magnesium Carbonate	~20	546-93-0	208-915-9	Not classified
Quartz Sand	<2	14808-60-7	238-878-4	Not classified
Sodium hexa meta phosphate	<1	68915-31-1	272-808-3	Not classified

The full text for all R phrases and hazard statements are displayed in section 16.

REACH Registration number: Exempt

3.2 Mixtures

N/A

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin Contact

Wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water immediately. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No specific symptoms noted.
Ingestion: No specific symptoms noted.
Skin Contact: No specific symptoms noted.
Eye Contact: No specific symptoms noted.

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4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

This product is not flammable. Use fire extinguishing media appropriate for surrounding materials.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: None under normal circumstances.

5.3 Advice for fire fighters

No specific fire-fighting procedures given.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures

Follow precautions for safe handling described in this safety data sheet

6.2 Environmental precautions

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3 Methods and material for containment and cleaning up

Avoid dust formation. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom, or the like but wear personal protective equipment to protect from dust. Transfer to a container for disposal.

6.4 Reference to other sections

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

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SECTION 7: Handling & Storage

7.1 Precautions for safe handling

Avoid handling which leads to dust formation. Avoid inhalation of high concentrations of dust. Observe occupational exposure limits and minimise the risk of inhalation of dust.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

7.3 Specific end use(s)

The identified uses for this product are detailed in section 1.2

SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters

Name	STD	TWA – 8hrs		STEL – 15mins		Notes
Bentonite	WEL	4.0 mg/m ³	10.0 mg/m ³			
Calcium Carbonate	WEL		10.0 mg/m ³			
Magnesium Silicate	WEL	4.0 mg/m ³	10.0 mg/m ³			
Magnesium Carbonate	WEL		1.0mg/m ³			
Quartz	WEL		0.1 mg/m ³			

WEL = Workplace Exposure Limit

Ingredient comments:

Dust contains respirable crystalline silica. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable dust should be monitored and controlled. The product should be handled using methods and techniques that minimise or eliminate dust generation. The product contains less than 1% w/w RCS (respirable crystalline silica) as determined by the SWERF method. The respirable crystalline silica content can be measured using the “Size-Weighted Respirable Fraction – SWERF” method. All details about the SWERF method is available at www.crystallinesilica.eu

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8.2 Exposure controls

Engineering Measures

Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust.

Respiratory Equipment:

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Wear dust masks in dusty areas such as FFP2 face fitted.



Hand Protection

No specific hand protection noted, but gloves may still be advisable.



Eye Protection

Wear dust resistant safety goggles where there is a danger of eye contact.

Provide Eye Wash Station.



Hygiene Measures

Wash hands at the end of each work shift and before eating, drinking, smoking, and using the toilet.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Granular powder, dust

Colour: Brown / Grey

Odour: Odourless

Solubility: Insoluble in water

9.2 Other information

N/A

SECTION 10: Stability and Reactivity

10.1 Reactivity

No specific reactivity hazards associated with this product.

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10.2 Chemical stability

Stable under normal temperature conditions.

10.3 Possibility of hazardous reactions

Not relevant.

10.4 Conditions to avoid

No specific conditions are likely to result in hazardous situation.

10.5 Incompatible materials

No specific, or groups of materials are likely to react to produce a hazardous situation.

10.6 Hazardous decomposition products

None under normal circumstances.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Other health effects:	This substance has no evidence of carcinogenic properties.
Acute toxicity:	Not relevant
Acute toxicity (Oral LD50):	Not relevant
Acute toxicity (Dermal LD50):	Not relevant
Acute toxicity (Inhalation LC50):	Not relevant
Inhalation:	Dust in high concentrations may irritate the respiratory system
Ingestion:	May cause discomfort if swallowed
Skin contact:	Powder may irritate the skin
Eye contact:	Particles in the eyes may cause irritation and smarting

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SECTION 12: Ecological Information

12.1 Toxicity

Not regarded as dangerous to the environment.
Not considered toxic to fish.

12.2 Persistence and degradability

This product is not normally biodegradable.

12.3 Bio accumulative potential

The product is not bioaccumulating.

12.4 Mobility in soil

Not relevant, due to the form of the product.

12.5 Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6 Other adverse effects

None known.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: Transportation Information

14.1 UN number

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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14.2 UN proper shipping name

Not classified for transportation.

14.3 Transport hazard class(es)

Not classified for transportation.

14.4 Packing group

Not classified for transportation.

14.5 Environmental hazards

Environmentally hazardous substances / marine pollutant: NO

14.6 Special precaution for user

Not classified for transportation.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory Information

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

Approved Code of Practice

Classification and labelling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.

Guidance Notes

Workplace Exposure Limits EH40

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulations (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

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15.2 Chemical safety assessment

Not applicable. No chemical safety assessment has been carried out.

SECTION 16: Other Information

No other information available.

Disclaimer:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability of completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their own particular use.