

# 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 compiled in accordance with REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

Doc No:	HS8 C42-053
Version:	MGS 5/JS
Date:	October 2024
Review Date:	October 2025

## 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
Physical Properties:	Brown/Grey Granulate

### 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
Email:	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

Not classified as hazardous.

### 2.2 Label elements

Not applicable.

### 2.3 Other hazards

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition / Information on Ingredients

### 3.1 Substances

Not applicable. This product is a mixture.

### 3.2 Mixtures

Product / Substance	Identifiers	%/ w/w	Classification
Magnesium Carbonate	CAS No: 546-93-0 EC No: 208-915-9	15-25%	N/A
Hunite (CaMg <sub>3</sub> (CO <sub>3</sub> ) <sub>4</sub> )	CAS No: 19569-21-2 EC No: 606-340-1	15-25%	N/A
Hydromagnesite	CAS No: 12072-90-1	15-25%	N/A
Stearic acid	CAS No: 57-11-4 EC No: 200-313-4	<1%	N/A

The full text for all H phrases are displayed in section 16. Occupational exposure limits are listed in Section 8 if these are applicable.

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## SECTION 4: First Aid Measures

### 4.1 Description of first aid measures

<b>General:</b>	In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
<b>Inhalation:</b>	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
<b>Skin Contact:</b>	Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
<b>Eye Contact:</b>	Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30 °C) and continue until irritation stops.
<b>Ingestion:</b>	If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.
<b>Burns:</b>	Not applicable.

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

None known.

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

Treat symptomatically. If medical advice sought, provide this Safety Data Sheet or the label from the product.

## 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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters. If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are Carbon oxides (CO / CO<sub>2</sub>), some metal oxides.

### 5.3 Advice for fire fighters

Fire fighters should wear appropriate personal protective equipment.

## 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

Avoid discharge to lakes, streams, sewers, etc.

### 6.3 Methods and material for containment and cleaning up

Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4 Reference to other sections

See section 13 "Disposal considerations" on handling of waste.  
See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling & Storage

### 7.1 Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.  
See section 8 "Exposure controls/personal protection" for information on personal protection.

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## 7.2 Conditions for safe storage, including any incompatibilities

### Recommended storage material

Always store in containers of the same material as the original container.

### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

## 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	LTE – 8hrs	STEL – 15mins
Magnesium Silicate	WEL	1 mg /m <sup>3</sup>	N/A
Magnesium Carbonate	WEL	Inhalable – 10 mg/m <sup>3</sup> Respirable – 4 mg <sup>3</sup>	N/A

WEL = Workplace Exposure Limit

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

### DNEL

#### Magnesium Silicate

Duration	Route of exposure	DNEL
Long term – Local effects – Workers	Dermal	4.54 mg/cm <sup>2</sup>
Long term – Systemic effects - Workers	Dermal	43.2 mg/kg bw/day
Long term – Local effects – Workers	Inhalation	3.6 mg/m <sup>3</sup>
Long term – Systemic effects – Workers	Inhalation	2.16 mg/m <sup>3</sup>
Short term – Local effects – Workers	Inhalation	3.6 mg/m <sup>3</sup>
Short term – System effects – Workers	Inhalation	2.16 mg/m <sup>3</sup>

#### Stearic Acid

Duration	Route of exposure	DNEL
Long term – Systemic effects – Workers	Dermal	10 mg/kg bw/day
Long term – Systemic effects – Workers	Inhalation	17.632 mg/m <sup>3</sup>

### PNEC

#### Magnesium Silicate

Route of Exposure	Duration of Exposure	PNEC
Air		10 mg/m <sup>3</sup>
Freshwater		597.97 mg/L
Freshwater sediment		31.33 mg/kg
Intermittent release (freshwater)		597.97 mg/L
Intermittent release (marine water)		141.26 mg/L
Marine water		141.26 mg/L
Marine water sediment		3.13 mg/kg

### 8.2 Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There is no exposure scenarios implemented for this product.

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## Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

## Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and showers are clearly marked.

## Hygiene measures




Wash hands after use.

## Measures to avoid environmental exposure

No specific requirements.

## 8.3 Individual protection measures, such as personal protective equipment.

Use only UKCA marked protection equipment.

<b>Respiratory Equipment:</b>	SL EN149 P3 Face Mask	
<b>Hand Protection</b>	EN374 Gloves with a breakthrough time of >480 minutes.	
<b>Eye Protection</b>	EN166 Safety Glasses with side shield	

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Physical State:</b>	Granular
<b>Colour:</b>	Brown, Grey
<b>Odour/Odour Threshold:</b>	None
<b>pH:</b>	Testing not relevant or not possible due to the nature of the product
<b>Density (g/cm<sup>3</sup>):</b>	1
<b>Kinetic viscosity:</b>	Not applicable – product is a solid
<b>Particle Characteristics:</b>	Testing not relevant or not possible due to the nature of the product
<b>Melting Point / Freezing Point (°C):</b>	No data available
<b>Softening point/range (waxes and pastes) °C:</b>	Does not apply to solids
<b>Boiling Point °C:</b>	Not applicable – product is a solid
<b>Vapour Pressure:</b>	Not applicable – product is a solid
<b>Relative vapour density:</b>	Does not apply to solids
<b>Decomposition temperature °C:</b>	No data available
<b>Flash Point:</b>	No data available
<b>Flammability (°C):</b>	No data available
<b>Auto-ignition temperature (°C):</b>	No data available
<b>Lower and upper explosion limit (%v/v):</b>	Does not apply to solids.
<b>Solubility in water:</b>	Insoluble in water
<b>n-octanol / water coefficient:</b>	Testing not relevant or not possible due to the nature of the product
<b>Solubility in fat (g/L):</b>	Testing not relevant or not possible due to the nature of the product

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## 9.2 Other information

### Evaporation rate (n-butylacetate = 100)

Not applicable - product is a solid

### Other physical and chemical parameters

No data available.

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3 Possibility of hazardous reactions

None known.

### 10.4 Conditions to avoid

None known.

### 10.5 Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6 Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological Information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

#### Acute toxicity

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

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

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

#### Respiratory sensitisation

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

#### Skin sensitisation

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

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

#### Information on other hazards

#### Long term effects

None known.

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## Endocrine disrupting properties

None known.

## Other information

Magnesium Silicate has been classified by IARC as a group 3 carcinogen.

## SECTION 12: Ecological Information

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bio accumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Endocrine disruption properties

No data available.

### 12.7 Other adverse effects

None known.

## SECTION 13: Disposal Considerations

### 13.1 Waste treatment methods

Product is not covered by regulations on dangerous waste.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

### EWC code

Not applicable.

### Specific labelling

Not applicable.

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## 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).

### 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

Not classified for transportation.

### 14.6 Special precaution for user

Not classified for transportation.

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## 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

#### Restrictions for application

Restricted to professional users.

#### Demands for specific education

No specific requirements.

#### SEVESO - Categories / dangerous substances

Not applicable.

#### Additional information

Not applicable.

#### Sources

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

### 15.2 Chemical safety assessment

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

## SECTION 16: Other Information

### Abbreviations and acronyms

ADN	European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADr	The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CE	Conformité Européenne
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EINECS	European Inventory of Existing Commercial chemical Substances
ES	Exposure Scenario
EUH	EUH statement CLP-specific Hazard statement
EWC	European Waste Catalogue
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer (IARC)
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
IMDG	International Maritime Dangerous Goods
LogPow	logarithm of the octanol/water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bio accumulative and Toxic
PNEC	Predicted No Effect Concentration

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RID	The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN	REACH Registration Number
SCL	A specific concentration limit
SVHC	Substances of Very High Concern
STOT-RE	Specific Target Organ Toxicity - Repeated Exposure
STOT-SE	Specific Target Organ Toxicity - Single Exposure
TWA	Time weighted average
UN	United Nations
UVBC	Unknown or variable composition, complex reaction products or of biological materials
VOC	Volatile Organic Compound
vPvB	Very persistent and Very Bioaccumulate
<b>Additional information</b> Not applicable.	
<b>Other</b> The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products. It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.	

## 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.