

1. Identification of the substance and company

1.1	Product name	Swecem GGBS		
1.2	Relevant identified of the substance and uses advised against	A hydraulic binder, can be used in combination with Ordinary Portland Cement to produce high performance, low carbon concrete, dry mix mortars, binders and screeds.		
1.3	Manufacture:	Ecocem Materials LTD, F1 Eastpoint Office Park, Dublin 3, Ireland	Supplier	Swecem AB Box 1291262 24 Ängelholm E-mail: info@swecem.com
1.4	Information:	Sale/Logistics		Sale: Ludwig Zetterström Ludwig.zetterstrom@swecem.com
1.5	Responsible for the safety data sheet	Henrik Palmkvist +46 (0)733 84 84 88 henrik.palmkvist@swecem.com		
1.6	Emergency telephone number	SOS Alarm 112		
1.7	Toxic information	+46 (0)8 331231		

2. Hazards identification

2.1	Classification	This substance is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008
2.2	Label elements	None according to Regulation (EC) No. 1272/2008
2.3	Other hazards	The product develops an alkaline pH value with moisture and can cause irritation

3. Composition/information in ingredients

3.1	Chemical name	Slag
3.2	%	100 %
3.3	CAS-no:	65996-69-2
3.4	EC-No:	266-002-0
3.5	Chemical contents	Slag, ferrous metal,, blast furnace

Swecem AB

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Box 1291
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4. First aid measures

4.1	Inhalation	Dust inhalation: Move into fresh air and keep at rest. In case of persistent throat irritation or coughing: Seek medical attention and bring these instructions.
4.2	Skin contact	Remove contaminated clothes and rinse skin thoroughly with water and soap.
4.3	Eye contact	Do not rub eye. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.
4.4	Ingestion	Immediately rinse mouth and drink sipsof water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.

5. Firefighting measures

5.1	Extinguishing media	Carbon dioxide (CO2) Dry extinguishing powder, alcohol resistant foam. Atomized water
5.2	Special hazards arising from substance or mixture	Can be released in case of fire: Carbon monoxide, carbon dioxide
5.3	Advice for firefighters	Wear a self-contained breathing apparatus and chemical protective clothing

6. Accidental release measure

6.1	Personal precautions	Avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact
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 for cleaning up	Use a vacuum cleaner. If not possible, moisten dust with water before it is collected with shovel, broom or the like.
6.4	References	Sections 7, 8, 13

7. Handling and storage

7.1	Safe handling advice	Wear personal protection equipment. Do not breathe dust
7.2	Storage conditions:	In suitable closed silos, suitable sacks or approved intermediate storage or disposal. Dust problems and spillage must be prevented during storage. Do not store together with Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff

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7.3	Final use	Section 1
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8. Exposure controls/ Personal protection

8.1	Control parameters	Freshwater 5000mg/l Marine water 500 mg/l Micro-organisms in sewage treatment plants (STP) 10000 mg/l Soil 1000 mg/kg
8.2	Personal protection:	INHALATION Short-term work: Use respiratory equipment with particle filter, type P2/P3. Long-term work: Use respiratory equipment with particle filter, type P2/P3. Respiratory equipment with turbo unit may be used. Risk of oxygen deficit (closed systems, e.g. silo): Use fresh air-supplied respirator SKIN CONTACT: Use suitable work gloves. EYE CONTACT: Tight-fitting goggles. Not relevant if full-mask is used.

9. Physical and chemical properties

9.1	Appearance	White-light grey powder
9.2	pH in water	>11,5
9.3	Relative density (g/cm ³):	2,85-2,95

10. Stability and Reactivity

10.1	Reactivity	None
10.2	Chemical stability	Stable
10.3	Hazardous reactions	The product develops hydrogen in aqueous solution in contact with metal
10.4	Conditions to avoid	Protect against: Moisture
10.5	Incompatible materials:	Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Acid. Light metal, ammonium salts
10.6	Hazardous decomposition products:	Can be released in case of fire: Carbon dioxide, carbon monoxide

11. Toxicological information

11.1	Inhalation	When adding water, small amounts of ammonia are released which will irritate the respiratory system. Dust may irritate throat and respiratory system and cause coughing.
11.2	Eye contact	Irritating and causes redness and pain.
11.3	Skin contact	Dust has an irritating effect on moist skin.
11.4	Ingestion	Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

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12. Ecological information

12.1	Toxicity	-
12.2	Degradability:	-
12.3	Bioaccumulative potential:	-
12.4	Mobility:	-
12.5	Results of PBT and vPvB assessment	-
12.6	Other adverse effects:	-

13. Waste treatment methods

13.1	Waste from residues: EWC-code: 10 02 02 Waste disposal number of contaminated packaging: 15 01 06
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14. Transport information

14.1	UN-number	Not relevant
14.2	Proper shipping name	Not relevant
14.3	Classification	Not relevant
14.4	Packing group	Not relevant
14.5	Environmental hazards	Not relevant
14.6	Special precautions	Refer to chapter 6-8
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and IBC code	Not relevant

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15. Regulatory information

15.1	National regulation	EU regulatory information 2010/75/EU (VOC): 0 % (estimated) 2004/42/EC (VOC): 0 g/L (estimated) Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III) Additional information This substance is classified as not hazardous according to regulation (EC) No. 1272/2008 [CLP]. REACH 1907/2006 Appendix XVII: not relevant National regulatory information Water contaminating class (D): -- not water contaminating
15.2	Chemical safety	For this substance a chemical safety assessment has been carried out.

16. Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OSHA: Concerning the International Transport of Dangerous Goods by Rail)
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act

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