

GLC Minerals Safety Data Sheet

SECTION 1. IDENTIFICATION

Product Identifier **Agrisol and Soilsol - Gypsum**

Manufacturer GLC Minerals, LLC
1450 Bylsby Ave.
Green Bay, WI, 54306-2236

Phone Number 920-432-7731

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Physical Hazards

None

Health Hazards

Skin corrosion/irritation - Category 3, Mild Irritant; Serious Eye Damage/Irritation - Category 2B, Mild Irritant; Carcinogenicity - Category 1A, Known human carcinogen

Label Elements

Signal Word

DANGER

Pictograms



Hazard Statements

Causes cancer if inhaled
Causes mild eye and skin irritation

Precautionary Statements

Do not handle until all safety precautions have been read and understood.
Do not breathe dust
Wash thoroughly after handling
Use personal protective equipment as required (safety glasses with side-shields if there is a risk of particles getting in eyes; respiratory protection if dust concentrations exceed the applicable occupational



exposure limits).

Dispose of according to federal, state and local regulations

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%
Calcium sulfate	7778-18-9	92
Calcium carbonate	1317-65-3	5
Magnesium carbonate	546-93-0	1.6
Silica, crystalline	14808-60-7	0.86

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

If respiratory symptoms develop, remove source of exposure and move to fresh air. Get medical advice/attention if symptoms persist.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap. Get medical advice/attention if irritation persists.

Eye Contact

Rinse the eye(s) with lukewarm, gently flowing water, while holding the eyelid(s) open. If eye irritation persists, get medical advice/attention.

Ingestion

Rinse mouth with water. Get medical advice/attention if you feel unwell or are concerned.

Most Important Symptoms

Eye and respiratory tract irritation

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for the surrounding fire.

Specific Hazards Arising from the Chemical

Does not burn. Calcium carbonate decomposes at high temperature (1742 °F/950 °C) to give gaseous carbon dioxide, calcium oxide (quicklime) and magnesium oxide.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.



SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid skin and eye contact. Avoid generating dust.

Methods and Materials for Containment and Cleaning Up

Utilize methods that avoid generating dust.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid skin and eye contact. Avoid generating dust.

Conditions for Safe Storage

Store away from incompatible materials (see Section 10).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Ingredient	CAS #	OSHA PEL (mg/m ³)	ACGIH TLV® (mg/m ³)
Calcium sulfate	7778-18-9	15 (TWA) 5 (TWA)(R)	10 (TWA)(I)
Calcium carbonate	1317-65-3	15 (TWA) 5 (TWA)(R)	NE
Magnesium carbonate	546-93-0	15 (TWA) 5 (TWA)(R)	10 (TWA) 3 (TWA)(R)
Silica, crystalline Respirable dust Respirable silica *	14808-60-7	10/2+% quartz (TWA) (R) 0.1 (TWA) (R)	NE 0.025 (TWA) (R)

* Some U.S. states with state run OSHA programs may use this PEL rather than the Federal OSHA PEL. MSHA uses the same PEL as OSHA.

Exposure Limit Abbreviations

NE= None Established

ACGIH TLV= American Conference of Governmental Industrial Hygienists Threshold Limit Value®, 2015 Edition

OSHA PEL= Occupational Health and Safety Administration Permissible Exposure Limit

MSHA PEL= Mine Safety and Health Administration Permissible Exposure Limit

TWA= Time Weighted Average

STEL= Short Term Exposure Limit

C= Ceiling Limit



mg/m³= milligram of substance per cubic meter of air

R= Respirable fraction of particulate sampled

I= Inhalable fraction of particulate sampled

Engineering Controls

Use with adequate general or local exhaust ventilation and to maintain exposure below occupational exposure limits.

Individual Protection Measures (Personal Protective Equipment):

Eye Protection

Wear safety glasses with side-shields if there is a risk of particles getting in eyes

Skin protection

No special chemical protective clothing is required. If material is processed, provide appropriate protective clothing and gloves for the application.

Respiratory Protection

In the solid state, no special requirements are necessary. If exposures exceed the applicable exposure limits, a NIOSH approved respirator should be selected based on the form and concentration of the contaminant in air.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Grayish-white powder
Odor	Not applicable
Odor Threshold	Not applicable
pH	9
Melting Point/Freezing Point	2840 °F (1560° C) (Calcium sulfate) (melting)
Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapor Pressure	Not applicable
Vapor Density (air = 1)	Not applicable
Relative Density (water = 1)	2.96 (Calcium sulfate)
Solubility	Slightly soluble in water
Partition Coefficient, (n-Octanol/Water (Log Kow))	Not applicable
Auto-ignition Temperature	Not applicable
Decomposition Temperature	1742 °F (950 °C)
Viscosity	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Calcium carbonate is incompatible with acids, alum, ammonium salts, fluorine, magnesium, reactive fluoridated, brominated or phosphorous compounds; aluminum (may form hydrogen gas), ammonium salts, mercury, hydrogen, magnesium, reactive powdered metals; organic acid anhydrides; nitro-organic compounds; interhalogenated compounds. Calcium carbonate reacts with acids and acidic salts to generate gaseous carbon dioxide with effervescence (bubbling) and heat. The reaction is rapid and exothermic with concentrated solutions of acids. The effervescence can create extensive foaming.

Hazardous Decomposition Products

None expected under conditions of normal use. Calcium carbonate reacts with acids and acidic salts to generate gaseous carbon dioxide with effervescence (bubbling) and heat. The reaction is rapid and exothermic with concentrated solutions of acids. The effervescence can create extensive foaming.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 (oral)
Calcium sulfate	>1581 mg/kg (rat)
Calcium carbonate	6450 mg/kg (mouse)
Magnesium carbonate	> 2000 mg/kg (rat)

Skin Corrosion/Irritation

Mild irritation

Serious Eye Damage or Irritation

Mild irritation

Respiratory or Skin Sensitization

Not known to cause sensitization

Germ Cell Mutagenicity

The ingredients are not known to be mutagenic.

Carcinogenicity

Calcium sulfate: Not listed by IARC, NTP or OSHA

Calcium carbonate: Not listed by IARC, NTP or OSHA

Magnesium carbonate: Not listed by IARC, NTP or OSHA

Silica, crystalline silica: IARC-Group 1 (carcinogenic to humans-Group 1); NTP-K (known to be a human carcinogen); OSHA-not listed.

Reproductive Toxicity

The ingredients are not known to be mutagenic.

Chronic Health Effects

This product contains a small amount of crystalline silica. Prolonged inhalation of respirable crystalline silica may cause silicosis, a potentially serious lung disease. Studies have shown fibrotic lung disease in humans



exposed to limestone dust, however, the health effects are thought to be associated with the presence of silica in the minerals processed or mined.

SECTION 12. ECOLOGICAL INFORMATION

Acute Aquatic Toxicity

Chemical Name	LC50 Fish
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Magnesium carbonate	2120-2820 mg/L (Pimephales promelas (fathead minnow); 96-hour, fresh water; static
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SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of according to federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)

Product is not regulated

International Maritime Dangerous Goods (IMDG)

Product is not regulated

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

Product is not regulated

International Civil Aviation Org./ International Air Transport Assoc. (ICAO/IATA)

Product is not regulated

SECTION 15. REGULATORY INFORMATION

CERCLA Hazardous Substances

Not listed

SARA Toxic Chemical (40 CFR 372.65)

Not listed

SARA Section 302 Extremely Hazardous Substances (40 CFR 355)

Not listed

SARA 311/312

Not listed



SARA Section 313 Toxic Chemicals reporting requirements

None

Threshold planning quantity (TPQ)

Not listed

RCRA Hazardous Waste Classification (40 CFR 261)

Not Classified

EPA Toxic Substances Control Act (TSCA) Status:

All of the components of this product are listed on the TSCA

California Proposition 65 Compliance

This product contains or produces chemicals (crystalline silica) known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code 25248.5 et seq.)"

SECTION 16. OTHER INFORMATION

DATE PREPARED: May 27, 2015 (Rev. 1)

PREPARER: Kay Rowntree, CIH
Industrial Hygiene Sciences, LLC

This MSDS is intended to be used as a guide to the appropriate handling, storage, and use of this product by an adequately trained person. GLC Minerals, LLC and Industrial Hygiene Sciences, LLC is not responsible for the misuse, mishandling or improper storage of this material by the user. GLC MINERALS, LLC AND INDUSTRIAL HYGIENE SCIENCES, LLC NEITHER MAKES, NOR OFFERS NOR SHALL BE HELD LIABLE FOR ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESECT TO THE USE OF THE INFORMATION PROVIDED.