



SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: CalciSoil Agricultural Gypsum

Synonyms: Gypsum, Gypsum Fertilizer, Calcium Sulfate

CAS 7778-18-9

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

CalciSoil Agricultural Gypsum is a naturally occurring mineral fertilizer derived from ocean deposits formed centuries ago. It performs in all three categories of soil treatment: an amendment, conditioner, and fertilizer. It improves physical and chemical properties of soil while its calcium and sulfur content provides essential nutrients for plants which ultimately results in improved overall plant growth and higher crop yield. Being moderately soluble, it is a natural controlled release fertilizer that feeds plants over many months with no adverse effect on human, animals and environment. It is also used as a raw material for the manufacture of fertilizers.

1.3. Details of the supplier of the safety data sheet

Registered company name: Ever Bright Global General Trading

Address: Office No.207, Kasco Tower, Al Qusais 3 Industrial Zone, Dubai, United Arab Emirates

Telephone: +97142523230 Fax: +97142523231

sales@everbrighttr.com

<http://www.everbrighttr.com>

Information contact: sales@everbrighttr.com

1.4. Emergency telephone number: +971551209995

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

This substance does not present a physical hazard.

This substance does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

No labelling requirements for this substance.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Composition:

Identification	Test Method	%
CALCIUM SULFATE DIHYDRATE (CASO4 + 2H2O)	ASTM C471M	98.00
CALCIUM SULFATE ANHYDRATE (CASO4)	ASTM C471M	2.00

SECTION 4: FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of splashes or contact with eyes:

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.
If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:

Watch out for any remaining product between skin and clothing, watches, shoes, etc.
If some discomfort appears immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

In the event of swallowing:

Seek medical attention, showing the label.

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

No specific symptoms or effects have been reported.

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

None

SECTION 5: FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

Use any means suitable for extinguishing surrounding fire.

Unsuitable methods of extinction

None.

5.2. Special hazards arising from the substance or mixture

None.

5.3. Advice for firefighters

Product itself does not burn.

Special protective equipment for fire-fighters: None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Retrieve the product by mechanical means (sweeping/vacuuming): do not generate dust.

6.4. Reference to other sections

None.

SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the substance is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

No special provisions if the product is used appropriately.

Fire prevention:

Prevent access by unauthorized personnel.

Product itself does not burn.

Coordinate firefighting measures to the fire surroundings.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the substance is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

To avoid the exposure to moisture

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Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
7778-18-9	10 (I) mg/m3				

- Belgium (Arrêté du 09/03/2014, 2014):

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
7778-18-9	10 mg/m ³				

- France (INRS - ED984 :2016) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
7778-18-9	-	10	-	-	-	-

Substance (mg/m3):

Country (dust respirable limit value 8 h / dust respirable limit value short time / dust inhalable limit value 8 h / dust inhalable limit value short time)

Austria (5/10/10/20) ; Belgium (3/-/10/-) ; Denmark (-/-/10/20) ; France (5 respirable aerosol/-/10/-) ; Germany (AGS) (3/6/10/20) ; Germany (DFG) (1,5/-/4/-) ; Hungary (6/-/10/-) ; Latvia (4/-/-/-) ; Poland (-/-/10/-) ; Spain (3/-/10/-) ; Sweden (5/-/10/-) ; Switzerland (3/-/10/-) ; USA (OSHA) (5/-/15/-) ; United Kingdom (4/-/10/-).

Remarks:

Austria: STV 15 minutes average value

France: Dust inhalable: restrictive statutory limit values. Germany

(AGS): 15 minutes average value, insoluble particulates Germany

(DFG): insoluble particulates

Latvia: dust containing chemicals

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Calcium sulfate (mg/m3):

Country (limit value 8 h / limit value short time)

Austria (5 RA/10 RA) ; Belgium (10/-) ; Denmark (5/-) ; Germany (AGS) (6 RA/-) ; Germany (DFG) (4 IA et 1,5 RA/-) ; Hungary (6 RA/-) ; Latvia (6 R/-) ; Spain (10 RA/-) ; Switzerland (3 RA/-) ; USA (NIOSH) (10 PT et 5 RA/-).

RA: respirable aerosol

IA: inhalable aerosol

R: respirable

PT: total dust

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Dust mineral respirable (mg/m3):

Country (limit value 8 h / limit value short time)

Belgium (3/-) ; Denmark (5/10).

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Biological limits:

DNEL values (Derived no-effect level):

DNEL for workers (inhalation): Acute systemic effects: 5082 mg/m3 DNEL

for workers (inhalation): Long term systemic: 21.17 mg/m3

DNEL for general population (inhalation): Acute systemic effects: 3811 mg/m3

DNEL for general population (inhalation): Long term systemic: 5.29 mg/m3 DNEL

for general population (oral): Acute systemic effects: 11.4 mg/m3

DNEL for general population (oral): Long term systemic: 1.52 mg/m3

PNEC values (Predicted no-effect concentration):

Aquatic: Not acutely toxic to fish, invertebrates, algae and microorganisms at the concentrations tested in the studies. Acute toxicity of calcium sulfate to fish, invertebrates, algae and microorganisms are generally greater than the highest concentrations tested and are greater than the maximum solubility of calcium sulfate in water.

Sediment: Not applicable due to ubiquitous nature of calcium and sulfate ions in the environment.

Soil: Not applicable due to ubiquitous nature of calcium and sulfate ions in the environment.

STP: 100 mg/L

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

CALCIUM SULFATE CASO₄ + 2H₂O (CAS: 7778-18-9)

Final use:

Exposure method:

Potential health effects:

DNEL:

Exposure method:

Potential health effects:

Workers.

Inhalation.

Short term systemic effects.

5082 mg of substance/m3

Inhalation.

Long term systemic effects.

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DNEL: 21.17 mg of substance/m³

Final use:

Exposure method:
Potential health effects:
DNEL:

Exposure method:
Potential health effects:
DNEL:

Exposure method:
Potential health effects:
DNEL:

Exposure method:
Potential health effects:
DNEL:

Man exposed via the environment.

Ingestion.
Short term systemic effects.
11.4 mg/kg body weight/day

Ingestion.
Long term systemic effects.
1.52 mg/kg body weight/day

Inhalation.
Short term systemic effects.
3811 mg of substance/m³

Inhalation.
Long term systemic effects.
5.29 mg of substance/m³

Predicted no effect concentration (PNEC):

CALCIUM SULFATE CASO₄ + 2H₂O (CAS: 7778-18-9)
Environmental compartment:
PNEC:

Waste water treatment plant.
100 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid breathing dust.

Type of FFP mask:

Wear a disposable half-mask dust filter in accordance with standard EN149.

Maintain the general maximum admissible concentration in the work place (refer to section 8.1). In case of strong dust emission wear respiratory filters type FFP 1.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information:

Physical state: Powder
Color: white of off-white
Odor: neutral

Important health, safety and environmental information

pH:	Not relevant.
Boiling point/boiling range:	Not relevant.
Flash point interval:	Not relevant.
Vapor pressure (50°C):	Not relevant.
Density:	Not stated.
Water solubility:	Partially soluble. 2g/l
Melting point/melting range:	Not relevant.
Self-ignition temperature:	Not relevant.

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Decomposition point/decomposition range:

Not relevant.

9.2. Other information

Decomposition into CaSO_4 , $1/2 \text{H}_2\text{O}$ and H_2O about 140°C (413K).

Decomposition into CaSO_4 and H_2O about 700°C (973K).

Decomposition into CaO and SO_3 about 1000°C (1273K).

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Materials to avoid: No materials known.

10.2. Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

Mixing with an aqueous solution of sodium carbonate will result in the formation of carbon dioxide.

10.4. Conditions to avoid

Avoid:

- Formation of dusts

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

No dangerous products of decomposition.

Decomposition takes place from temperatures above: 1450°C

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No data available.

11.1.1. Substances

Acute toxicity:

Acute oral toxicity: Method OECD 420 with rats: LD 50 > 1581mg/kg

CALCIUM SULFATE $\text{CASO}_4 + 2\text{H}_2\text{O}$ (CAS: 7778-18-9)

Oral route:

LD50 > 1581 mg/kg

Species: Rat

OECD Guideline 420 (Acute Oral Toxicity Fixed Dose Method)

Inhalation route (N/A):

LC50 > 2.61 mg/l

Species: Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/skin irritation:

CALCIUM SULFATE $\text{CASO}_4 + 2\text{H}_2\text{O}$ (CAS: 7778-18-9)

Corrosively:

No observed effect.

Species: Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Species: Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious damage to eyes/eye irritation:

CALCIUM SULFATE $\text{CASO}_4 + 2\text{H}_2\text{O}$ (CAS: 7778-18-9)

Species: Rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Species: Rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Species: Rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Species: Rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

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Respiratory or skin sensitization:

Acute inhalative toxicity: Method OECD 403 with rats: LC50 > 2.61 mg/L (maximum attainable dose).

CALCIUM SULFATE CASO₄ + 2H₂O (CAS: 7778-18-9)

Local lymph node stimulation test:

Non-Sensitizer.

Species: Guinea pig

OECD Guideline 406 (Skin Sensitization)

Guinea Pig Maximization Test (GMPT):

Non-sensitizer.

Species: Guinea pig

OECD Guideline 406 (Skin Sensitization)

Buehler Test:

Non-sensitizer.

Species: Guinea pig

OECD Guideline 406 (Skin Sensitization)

Germ cell mutagenicity:

Germ cell mutagenicity: Method OECD 471 and OECD 476 in Vitro tests: not mutagenic.

Germ cell mutagenicity: Method OECD 474 with mice: not mutagenic.

CALCIUM SULFATE CASO₄ + 2H₂O (CAS: 7778-18-9)

No mutagenic effect.

Mutagenesis (in vivo):

Negative.

Species: Mouse

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro):

Negative.

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Carcinogenicity:

CALCIUM SULFATE CASO₄ + 2H₂O (CAS: 7778-18-9)

Carcinogenicity Test:

Negative.

No carcinogenic effect.

Reproductive toxicant:

Method OECD 422 with rats: NOAEL = 790 mg/kg (no signs of reproductive toxicity observed).

CALCIUM SULFATE CASO₄ + 2H₂O (CAS: 7778-18-9)

No toxic effect for reproduction

Study on development:

Species: Rat

OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

After neutralization, toxicity is no longer observed. The product can hydrolyze into Calcium and Sulfate Ions. The stated effect can be caused partly by the decomposition products. The ecological data were measured on the hydrolyzed product.

CALCIUM SULFATE CASO₄ + 2H₂O (CAS: 7778-18-9)

Fish toxicity:

LC50 > 79 mg/l

Species: Others

Duration of exposure: 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity:

EC50 > 79 mg/l

Species: Daphnia sp.

Duration of exposure: 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilization Test)

Algae toxicity:

ECr50 > 79 mg/l

Species: Scenedesmus capricornutum

Duration of exposure: 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

Abiotic Degradation Physical- and photo-chemical elimination: The product hydrolyses quickly in the presence of water to: Calcium and Sulfate Ions The individual components are poorly eliminated from water.

Inorganic product which is not eliminable from water through biological cleaning processes.

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12.2.1. Substances

CALCIUM SULFATE CASO₄ + 2H₂O (CAS: 7778-18-9)
Biodegradability:

no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bio accumulative potential

Based on the n-octane/water partition coefficient significant accumulation in organisms is not expected. No indication to bioaccumulation potential. The ecological data were measured on the hydrolyzed product. According to experiences this product is inert and not degradable biologically.

12.4. Mobility in soil

Water-soluble solid. Natural constituent in soils. If product enters soil, it will be mobile and may contaminate groundwater

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as dangerous for the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste codes / waste designations according to EWC

10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products

10 12 06 discarded molds

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION

Exempt from transport classification and labelling.

14.1. UN number

None. Not Classified

14.2. UN proper shipping name

Not Classified.

14.3. Transport hazard class (es)

Not Classified.

14.4. Packing group

None.

14.5. Environmental hazards

Not Applicable.

14.6. Special precautions for user

None.

14.7. IATA/ICAO: Not regulated.

Not Regulated.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations


Gypsum	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
Quartz (14808-60-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Limestone (1317-65-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

CalciSoil Agricultural Gypsum Fertilizer

US State Regulations

Quartz (14808-60-7)	
U.S. - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.
Quartz (14808-60-7)	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
Limestone (1317-65-3)	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
Gypsum (Ca(SO₄).2H₂O) (13397-24-5)	
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	

Canadian Regulations

Gypsum	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
	
Quartz (14808-60-7)	
Listed on the Canadian DSL (Domestic Substances List) Listed on the Canadian IDL (Ingredient Disclosure List) IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Limestone (1317-65-3)	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.
CalciSoil Agricultural Gypsum Fertilizer

SECTION 16: OTHER INFORMATION

Revision Date : 15/01/2020

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Carc. 1A	Carcinogenicity Category 1A
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H335	May cause respiratory irritation
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

Party Responsible for the Preparation of This Document

Ever Bright Global General Trading
+97142523230

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