



# Sea-90 Agriculture Soil Mineralizer Plus

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Issue date: 5/24/2022  
Revision date: 7/27/2022  
Version: 1.1

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Sea-90 Agriculture Soil Mineralizer Plus  
Product code : S-CRP-MPSB

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : For use as a macro mineral and trace element nutrient source for soil and plants. Intended to be spread onto or mixed into soil.

#### 1.3. Supplier

##### Manufacturer

SeaAgri Solutions LLC  
PO Box 682075  
Marietta, GA 30068 - USA  
T (770) 361-6092

#### 1.4. Emergency telephone number

Emergency number : (770) 361-6092 (M-F, 9am - 6pm EST)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS classification

Not classified.

#### 2.2. GHS Label elements, including precautionary statements

##### GHS labelling

No labelling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Sodium chloride	Sodium chloride Sea salt / Sodium chloride (NaCl) / SODIUM CHLORIDE / Sodium salt of hydrochloric acid / Salt / SEA SALT / sodium chloride	CAS-No.: 7647-14-5	75 – 85*
Carbonic acid, calcium salt (1:1)	Carbonic acid, calcium salt (1:1) C.I. Pigment White 18 / Calcium carbonate / Pigment White 18 / C.I. 77220 / Carbonic acid, calcium salt / CALCIUM CARBONATE / CI 77220 / calcium carbonate	CAS-No.: 471-34-1	3 – 7**
Humic acids	Humic acids Humic acid / Humic acids (The brown polymeric product from the decomposition of organic matter, particularly dead plants. This combination of polymers may contain aromatic and heterocyclic structures, carboxy groups, and nitrogen.) / HUMIC ACIDS	CAS-No.: 1415-93-6	1 – 5**

Comments : \*The concentrations listed represent actual ranges that result from batch variability.  
\*\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: Dust may cause respiratory tract irritation.
Symptoms/effects after skin contact	: None under normal use. May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Dust may cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion	: May be harmful if swallowed in large quantities. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.

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### 5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

For containment : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).  
Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Avoid generating dust. Provide ventilation.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid generating and breathing dust. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Good housekeeping is important to prevent accumulation of dust. Use only in well ventilated areas.  
Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Store in dust-tight, dry, labelled containers. Store in a cool, well-ventilated place.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>Sea-90 Agriculture Soil Mineralizer Plus</b>	
No additional information available	
<b>Sodium chloride (7647-14-5)</b>	
No additional information available	
<b>Carbonic acid, calcium salt (1:1) (471-34-1)</b>	
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL TWA	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
<b>Humic acids (1415-93-6)</b>	
No additional information available	

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

<b>Hand protection:</b>
None necessary under normal conditions of use. Wear gloves if handling large quantities.
<b>Eye protection:</b>
Safety glasses or goggles are recommended when using product.
<b>Skin and body protection:</b>
None necessary under normal conditions of use.
<b>Respiratory protection:</b>
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline.
Colour	: Black
Odour	: None
Odour threshold	: No data available
pH	: 8.2
Melting point	: 801 °C / 1474 °F
Freezing point	: No data available
Boiling point	: 1465 °C / 2669 °F

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Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: 2.4 mm Hg at 747°C (1377 °F)
Relative vapour density at 20 °C	: No data available
Relative density	: 2.16 (H <sub>2</sub> O = 1 )
Solubility	: Suspendable with agitation
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: Not explosive
Oxidising properties	: No data available

### 9.2. Other information

Bulk density : 800 – 1600 kg/m<sup>3</sup>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat. Dust formation. Incompatible materials.

### 10.5. Incompatible materials

Strong acids. Water, humidity.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

#### Sodium chloride (7647-14-5)

LD50 oral rat	3 g/kg
LD50 dermal rabbit	> 10000 mg/kg bodyweight Animal: rabbit
LC50 inhalation rat	> 42 mg/l (Exposure time: 1 h)

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<b>Sodium chloride (7647-14-5)</b>	
ATE CA (oral)	3000 mg/kg bodyweight

<b>Carbonic acid, calcium salt (1:1) (471-34-1)</b>	
LD50 oral rat	6450 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat	> 3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)
ATE CA (oral)	6450 mg/kg bodyweight

Skin corrosion/irritation	: Not classified. pH: 8.2
Serious eye damage/irritation	: Not classified. pH: 8.2
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.

<b>Humic acids (1415-93-6)</b>	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified.

<b>Carbonic acid, calcium salt (1:1) (471-34-1)</b>	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	≥ 0.212 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

Aspiration hazard	: Not classified.
Symptoms/effects after inhalation	: Dust may cause respiratory tract irritation.
Symptoms/effects after skin contact	: None under normal use. May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Dust may cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion	: May be harmful if swallowed in large quantities. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Not considered to be harmful to aquatic life.

<b>Sodium chloride (7647-14-5)</b>	
LC50 - Fish [1]	5560 – 6080 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 - Crustacea [1]	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

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Sodium chloride (7647-14-5)	
EC50 - Crustacea [2]	340.7 – 469.2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LOEC (chronic)	441 mg/l Test organisms (species): Daphnia pulex Duration: '21 d'
NOEC (chronic)	314 mg/l Test organisms (species): Daphnia pulex Duration: '21 d'

### 12.2. Persistence and degradability

Sea-90 Agriculture Soil Mineralizer Plus	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

Sea-90 Agriculture Soil Mineralizer Plus	
Bioaccumulative potential	Not established.

Sodium chloride (7647-14-5)	
BCF - Fish [1]	(no bioaccumulation)

Carbonic acid, calcium salt (1:1) (471-34-1)	
BCF - Fish [1]	(no bioaccumulation)

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : No other effects known.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Smaller quantities can be disposed of with household waste.

## SECTION 14: Transport information

In accordance with DOT / TDG

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : Not applicable

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### TDG

Transport hazard class(es) (TDG) : Not applicable

### 14.4. Packing group

Packing group (DOT) : Not applicable

Packing group (TDG) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

### DOT

No data available

### TDG

No data available

### 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. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Revision date : 07/27/2022

Other information : None.

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