Safety Data Sheet

Section 1: Identification

Product Name: Espoma Organic Rock Phosphate

Product form: Granular

Use of product: Soil Nutrient

Produced by:
The Espoma Company
6 Espoma Road
Millville, NJ 08332

Emergency phone number: 800-634-0603

Section 2: Hazards Information

Classification (GHS – US): 3
Signal Word: Warning

Hazardous Statement: May cause respiratory irritation.

Precautionary Statements:

Avoid breathing dust.
Use only outdoors or in a well ventilated area.
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a Poison Control Center or physician if accidentally inhaled or ingested.
Dispose of contents in accordance with local, regional, national regulations. Appearance: This product is granular pellet, tan/light gray. (See also Section 9.)

Emergency Overview:
May cause skin or respiratory irritation based on prolonged or repeated overexposure to high concentrations. Irritation is believed to be mild to moderate and reversible. This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin,

eyes, nose, throat, or upper respiratory tract. This product does not present an inhalation, ingestion, or contact health hazard unless subjected to operations such as sawing, sanding or machining which result in the generation of airborne particulate. This product contains quartz (crystalline silica) as a naturally occurring constituent.

Acute Effects of Exposure:

Inhalation: May cause minor to moderate irritation. Exposure to dust generated during the handling or use of the product may cause temporary irritation to eyes, skin, nose, throat, and upper respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.

Ingestion: May cause irritation to the esophagus and stomach, abdominal spasms and pain. Contact Poison Control if swallowed.

Skin Contact: May cause minor irritation.

Eye Contact: Dust can cause temporary mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician. May cause minor irritation. Chronic Effects of

Exposure:

Target organs: Eyes, skin and respiratory system.

Symptoms: Irritation of the eyes, skin, mucous membranes, upper respiratory system; cough, sneezing, rhinorrhea (discharge of thin nasal mucus).

Cancer: Product may contain crystalline silica as a normal environmental constituent. The amount present based on recent tests indicated less than the mandatory reporting level of 0.1% by weight. Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels can be determined by industrial hygiene exposure testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration. Note: Many soil types contain more than 0.1% crystalline silica. This product may add an insignificant level to the overall silica exposure.

Section 3: Composition / Information on Ingredients:

Chemical Name	CAS #	Weight %
Fluorapatite – Ca10F2(PO4)6	1306-05-4	75-80
Quartz –SiO2	14808-60-7	6-8

Boiling Point (°F)	N/A
Specific Gravity (H^2O=1)	1.6
Vapor Pressure (mm Hg)	N/A
Percent Volatile (vol %)	N/A
Vapor Density (Air=1)	N/A
Evaporation Rate	N/A
Solubility in Water	Not soluble in water
Appearance and Odor	Brown to black granular with slight molasses odor

Section 4: First Aid Measures

Exposure	Symptoms	Recommendation
Inhalation	Mild Irritation	Prolonged inhalation of respirable silica may cause scaring of the lungs with cough and shortness of breath. (silicosis) Remove to fresh air. If not breathing, give artificial respiration. If breathing difficulty or coughing persists, seek medical attention.
Skin Contact	Mild Irritation	Prolonged contact may be slightly irritating due to drying of the skin. Wash thoroughly with neutral soap and water. Seek medical attention if skin irritation persists or if skin rashes or dermatitis develop.
Eye Contact	Mild Irritation	Dust may be irritating to eyes. If the material gets into the eye, flush the eye under running water for at least 15 minutes. If easy to do, remove contact lenses and continue to flush with water.
Ingestion	None Known	May cause gastric irritation, nausea, vomiting, abdominal burning and cramp like pain. Chronic exposure to excessive levels of fluoride containing dusts may cause excessive calcification of the bone and ligaments of the ribs, pelvis and spinal column. Give large amounts of water. If symptoms are severe or persistent seek medical assistance.

Potential Symptoms: Irritation of the eyes, skin, mucous membranes, upper respiratory system, cough, sneezing, rhinorrhea (discharge of thin nasal mucous), nosebleed.
Acute Ingestion: GI blockage if material hardens.

Section 5: Fire-fighting Measures:

Flash Point (°F)	None
Flammability Limits (vol %)	LEL: N/A UEL: N/A
Extinguishing Media	As needed for material causing the fire.
Special Fire Fighting Procedures	As needed for material causing the fire.
Explosions Hazards	None

Section 6: Accidental Release Measures:

Personal precautions: Avoid breathing dust. Stand upwind when loading/unloading and broadcasting.
Protective equipment: Use personal protective equipment as recommended in Section 8. (dust mask/particulate filter)
Emergency procedures: Contain spill area and protect from pedestrian or vehicle traffic.
Methods and materials for containment and cleaning up: Avoid generating dust. Shovel or sweep up spilled material and place in suitable container. Dispose in accordance with federal, state/provincial and local requirements.

Section 7: Handling & Storage:

Precautions for safe handling: Keep container closed when not in use. Store in dry place. Minimize dust generation and accumulation.

Handling: Handle in accordance with good industrial hygiene. Wash hands after handling.
Storage: Store in a cool dry place out of reach of children and pets.
Incompatible Materials: None known

Section 8: Exposure Controls / Personal Protection:

Chemical Name	Weight%	ACGIH TLV (mg/m^3)
Fluorapatite – Ca10F2(PO4)6	75-80	2.5 mg/m^3 (F)
Quartz –SiO2	6-8	0.1 mg/m^3

Notes :

- "OSHA" means Occupational Safety and Health Administration.
- "PEL" means (OSHA) permissible exposure limit.
- "ACGIH" means American Conference of Governmental Industrial Hygienists.
- "TLV" means Threshold Limit Value.
- "TWA" means time-weighted average.

Appropriate engineering controls
No specific controls needed. Ventilate to keep airborne concentrations below exposure limits. Use of an enclosed tractor cab with particulate air filtration can reduce the risk of inhaling dusts and soils during application.

Personal Protection Equipment (PPE)
Skin Protection: Direct skin contact should be avoided by wearing long sleeved shirts and long trousers and gloves (leather or equivalent). Disposable particulate coveralls may be used when conditions warrant.
Eye Protection: Safety spectacles or goggles.
Respiratory Protection: Occupational Safety and Health Administration (OSHA) Regulations (29 CFR 1910.134 - Respiratory Protection) must be followed whenever work conditions require a respirator. A National Institute for Occupational Safety and Health (NIOSH) approved particulate respirator is recommended when engineering controls are not feasible, or while engineering controls are being instituted, and if an OSHA PEL or ACGIH TLV is exceeded.

Personal Hygiene: Work clothing should be washed regularly. Wash hands before eating, drinking, or using tobacco products. Wash exposed skin with soap and water.
Use only with adequate ventilation/personal protection.

Section 9: Physical & Chemical Properties:

Property	Value	Property	Value
Appearance (physical state, color, etc.)	Granular; light gray	Upper/lower flammability or explosive limits:	Not Applicable
Odor:	None	Vapor Pressure:	Not Applicable
Odor Threshold	Not Applicable	Vapor Density:	Not Applicable
pH:	≤ 9 but may be as low as 4 in sodium.	Specific gravity or relative density:	2.19 g/cc
Melting point/freezing point:	NA	Solubility(ies):	Soluble in water
Initial boiling point and range:	Not Applicable	Partition coefficient: n- octane/water:	Not Applicable
Flash point:	Not Applicable	Auto ignition	Not Applicable

		temperature:	
Evaporation rate:	Not Applicable	Decomposition Temperature:	1450°C
Flammability (solid, gas):	Not Applicable	Viscosity:	Not Applicable
Physical State:	Solid	Corrosivity towards steel:	0.56 millimeters per year

Section 10: Stability & Reactivity

Stability: Stable.
Conditions to Avoid: None
Incompatibility (materials to avoid): Strong Acids
Hazardous Decomposition Products: Silicon Tetrafluoride, Hydrogen Fluoride and Hydrogen Sulfide
Hazardous Polymerization: Will Not Occur

Section 11: Toxicological Information:

Likely routes of exposure: inhalation, ingestion, skin and eye contact.

Symptoms: Irritation of the eyes, skin, mucous membrane, upper respiratory system; cough, sneezing, rhinorrhea (discharge of thin nasal mucus), nosebleed.
Acute ingestion: Irritation to the esophagus and stomach, abdominal spasms and pain. GI blockage if material hardens.
Health Effects: Nuisance particulate (accumulation in lungs).
Delayed and immediate effects: None known.
Chronic effects from short and long-term exposure: None known.

Carcinogenicity:
None of the components are listed as a carcinogen or suspected carcinogen in the U.S. National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions), or by OSHA. Note: This product may contain small quantities of crystalline silica (<0.1%), which has been identified as a carcinogen by the IARC and U.S. NTP.

**No acute inhalation toxicity, acute dermal toxicity, acute toxicity (other routes of administration), corrosiveness/irritation, or eye irritation corrosion studies are available.*

Section 12: Ecological Information:

No Information Available.

Section 13: Disposal Considerations:

See Sections 7 and 8 above for safe handling and use, including appropriate hygienic practices.

Recover or recycle if possible. Disposal should be in accordance with applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Section 14: Transport Information:

UN number: Not classified as a hazardous material by USDOT regulations.

UN proper shipping name: Not applicable.

Transport hazard class(es): Not applicable.

Packing group, if applicable: Not applicable.

Section 15: Regulatory Information:

No Information Available

Section 16: Other Information:

8/13/2025
The information contained in this SDS is provided without warranty of any kind, express or implied. The information contained herein is made available solely for consideration, investigation, and verification by the original recipients hereof. Users should consider this information only as a supplement to other information gathered by or available to them. Users should make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these

materials for the safety and health of employees, customers, and the environment. This hazard information is not a substitute for risk assessment under actual conditions of use. Users have the responsibility to keep currently informed on chemical hazard information, to design and update their own programs, and to comply with all applicable national, federal, state, and local laws and regulations regarding safety, occupational health, right to know, and environmental protection.