

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

PRODUCT NAME: SoilSafe™
MANUFACTURERS NAME: Ancient Organics Bioscience, Inc.
ADDRESS: 793 E. Foothill Blvd, Ste 37, San Luis Obispo, CA 93405 USA
TELEPHONE NUMBER: 805-748-9717
DATE PREPARED: March 7, 2023
RECOMMENDED USES: **SoilSafe** is a dry, high-potency microbial soil amendment formulated for agricultural and environmental use. It is designed to support the bioremediation of soils impacted by herbicide residues (e.g., glyphosate, 2,4-D, atrazine), petroleum hydrocarbons, heavy metals, and other environmental contaminants. This product is recommended for incorporation into soil prior to planting, post-harvest, or during fallow periods to restore biological activity, improve nutrient cycling, and support long-term soil health. SoilSafe G+ is suitable for conventional, organic, and regenerative farming systems. Apply according to label instructions based on crop type, contamination level, and soil condition

SECTION II: HAZARDS IDENTIFICATION

Not classified as a hazardous material by the criteria of the OSHA Hazard Communication Regulation, 29 CFR Part 1910, PP 1910. 1200 "Hazard Communication"; or EPA 40 CFR Parts 300 & 355 and Public Law 99-499 CERCLA and SARA.

Per GHS Classification this material is not deemed hazardous under the criteria outlined in the Federal OSHA Hazard Communication standard 29CFR 1910.1200 (non-toxin, non-pathogenic)

SIGNAL WORD: None

PICTOGRAM: None

HAZARD STATEMENT: May cause mild respiratory irritation if inhaled as dust May cause mild eye or skin irritation if in direct contact. Ingestion may result in minor gastrointestinal discomfort. No adverse effects expected from inhalation under normal conditions. Use with adequate ventilation during prolonged exposure.

PRECAUTIONARY STATEMENT:

- Avoid breathing dust.
- Use in well-ventilated area.
- Use eye protection.
- Wear gloves when handling and
- Wash hands after handling

PREVENTION: Observe good industrial hygiene practices.

RESPONSE: Wash hands after handling.

CARCINOGENS: None listed by OSHA, IARC, or NTP as suspected carcinogens

STORAGE: Store away from incompatible materials.

DISPOSAL: Dispose of waste and residues in accordance with local authority requirements.

UNCLASSIFIED HAZARDS: None

TOXICITY: None

HAZARD(S) NOT OTHERWISE CLASSIFIED (HNOC): None known

Contains Bio-Safety Level One Organisms as Classified by ATCC (safest classification)

While this product does not fall under the auspices of the WHMIS this Safety Data Sheet

contains information critical to the safe handling and proper use of the product. This SDS should be retained & made available to all employees and end users of the product

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS SUBSTANCE

INGREDIENTS:

Ingredient	Function	Typical Concentration
Microbial consortium	Microbial inoculant	~60–70%
Molasses powder	Microbial feedstock	~16%
Fulvic acids	Soil conditioner	~5%
Seaweed powder	Soil and microbial stimulant	~5%
Inert carrier	Flow and drying agent	~4%

All strains are GRAS or non-GMO Biological safety level 1.

CAS NUMBER Not available

SYNONYMS: Microbial bioenhancers, microbial biostimulants, soil probiotics

Does NOT contain any hazardous ingredients according to OSHA 29CFR 1910.1200 criteria

Does NOT contain any hazardous ingredients according to WHMIS criteria

SECTION IV: FIRST AID MEASURES

SKIN: Remove contaminated clothing and wash hands thoroughly after use. If irritation occurs consult with physician.

EYES: Flush eyes with cool water for 15 minutes, remove contact lenses and consult physician if irritation persists

INGESTION: If conscious rinse mouth and dilute with fluids. Consult physician or poison control for further treatment advice

INHALATION: Move person to fresh air and consult physician for further treatment advice.

NOTE TO PHYSICIAN (Antidote): N/A

OTHER: Contains molasses. Avoid product if you are allergic to any of its components

SECTION V: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use appropriate media for underlying cause of fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus. Utilize appropriate means to extinguish fire

FLASH POINT: N/A

SPECIAL FIRE HAZARDS: None

SPECIFIC HAZARDS: None

SECTION VI: ACCIDENTAL RELEASE MEASURES

CLEANING PROCEDURES: Avoid creating dust. Sweep up and dispose of in compost. Wear protective equipment as outlined in section VII. Vacuum or use wet clean-up techniques and place in properly labeled and closed container. Rinse spill area with water. Prevent from entering storm drains Dispose of recovered material according to federal, state/provincial and local environmental regulations.

Waste is Non-Hazardous as defined by RCRA (40 CFR261).

REPORTABLE QUANTITY (RQ) UNDER CERCLA: No

SECTION VII: STORAGE, HANDLING

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE:

- **Handling:** Avoid breathing dust. Use gloves and mask if handling large volumes.
- **Storage:** Store in cool, dry place below 30°C. Keep sealed in original packaging.

- **Shelf Life:** 12–18 months if unopened

OTHER: Always follow label directions

SECTION VIII: EXPOSURE CONTROLS AND PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYE / FACE PROTECTION: Eye protection (OSHA Approved) is recommended if potential for excessive dust exists

HAND / SKIN PROTECTION: Skin protection (OSHA Approved) is recommended for those individuals with sensitive skin

RESPIRATORY PROTECTION: Respiratory protection is not required

OTHER: Wear pants, shirt, shoes and socks

ENGINEERING CONTROLS:

Local exhaust or general ventilation to maintain exposure below PEL

PEL: See Section II on individual components

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Fine tan to light brown powder with characteristic mild earthy odor.

SOLUBILITY: Dissolves in water

pH: ~6.5 to 7.5

BULK DENSITY: ~0.6 to 0.8 g/cm³

BOILING POINT: N/A

FLAMMABILITY: Not flammable

MELTING POINT: N/A

FREEZING POINT: Approximately -5 °C (23 °F)

BOILING POINT: ~100 °C (212 °F)

EVAPORATION RATE: N/A

VAPOR DENSITY (Air = 1): N/A

SPECIFIC GRAVITY: NA

WATER SOLUBILITY: 100%

SECTION X: STABILITY AND REACTIVITY INFORMATION

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Heat, moisture
- **Incompatibility:** Strong acids, fungicides, oxidizing agents
- **Hazardous Decomposition:** None under normal use

SECTION XI: TOXICITY INFORMATION

MUTAGENIC EFFECTS: None known

TERATOGENIC EFFECTS: None known

DEVELOPMENTAL TOXICITY: None known

CARCINOGENIC EFFECTS: None known (I.A.R.C; BN.T.P.). Threshold values, none

ACUTE EFFECTS: Not toxic. May cause irritation of the eyes and/or skin, gastrointestinal discomfort if swallowed

SENSITIZATION: Not expected. Repeated or prolonged exposure to the substance at concentration above the exposure limits may cause respiratory tract and lung sensitization.

SECTION XII: ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT: Safe for soil and water systems

PERSISTENCE/DEGRADABILITY: Microbial strains degrade naturally

ECOTOXICITY (AQUATIC AND TERRESTRIAL): No product specific data, deemed low toxicity based on individual components that comprise product

PERSISTENCE AND DEGRADABILITY: contains natural soil bacteria & food grade ingredients (microbial nutrients). Generally considered chemically inert in the environment

BIOACCUMULATIVE POTENTIAL: No product specific data, product is not expected to accumulate in soil or water based on individual components that comprise product

MOBILITY IN SOIL: No product specific data

OTHER ADVERSE EFFECTS: None observed

SECTION XIII: DISPOSAL CONSIDERATIONS

Non-hazardous waste. Dispose of unused product in accordance with local, state and federal regulations for Natural Soil Bacteria Protocol. Resealable pouches are compostable.

SECTION XIV: TRANSPORT INFORMATION

SoilSafe is not hazardous for storage and transport according to the U.S. Department of Transportation Regulations (DTR) and does not require specific labelling to meet DTR guidelines.

DOT SHIPPING NAME: Not classified as hazardous

TRANSPORT HAZARD CLASS: Not classified as hazardous

UN NUMBER: Not required

HAZARD CLASS: Not classified as hazardous

PRIMARY HAZARD LABEL: Not classified as hazardous

SUBSIDIARY RISK LABEL: Not classified as hazardous

WHMIS CLASSIFICATION: Not classified as hazardous

MARINE POLLUTANT: contains natural soil bacteria and food grade ingredients (microbial nutrients). Generally considered chemically inert in the environment

SECTION XV: REGULATORY INFORMATION

SARA 311/ 312: Not reportable

SARA 313: Not reportable

CERCLA: Not reportable

This product does not contain any ingredients on RCRA P or U lists of Federal Hazardous Waste, This product does not contain any ingredients on the Clean Air Act (CAA) list of Hazardous Waste.

SECTION XVI: OTHER INFORMATION

TO THE BEST OF OUR KNOWLEDGE THIS INFORMATION IS TRUE AND ACCURATE AND FURNISHED WITHOUT WARRANTIES ON OCTOBER 16, 2022. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL, WE DO NOT ASSUME ANY RESPONSIBILITY FOR THE RESULTS OF ITS USE. THIS INFORMATION IS FURNISHED UPON THE CONDITION THAT THE PERSON RECEIVING THIS PRODUCT SHALL MAKE HIS/HER OWN DETERMINATION OF THE SUITABILITY OF THE MATERIAL FOR THEIR PARTICULAR PURPOSE. THIS INFORMATION IS PROVIDED IN GOOD FAITH BUT WITHOUT EXPRESSED OR IMPLIED WARRANTY. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO TAKE APPROPRIATE PRECAUTIONS.