


MSDS – Materials Safety Data Sheet

Effective Date: 9/01/2011

Product Identity:

ECO-MIN®

I - IDENTIFICATION

Manufacturer's Name: 	Manufacturer's Address: PO Drawer T 425 Alta Street, Building 16 Gonzales, CA 93926 USA www.healthysoil.com	Manufacturer's Phone: EMERGENCY: +1 800-414-3111 INFORMATION: +1 831-675-3144
--	---	--

CHEMICAL NAME Granite, Basalt, Limestone & Catalyst	CHEMICAL FORMULA Not Applicable	MOLECULAR WEIGHT Not Applicable
TRADE NAME: ECO-MIN	SYNONYMS None	DOT IDENTIFICATION NO. None

II – PRODUCT AND COMPONENT DATA

<u>COMPONENT(S) CHEMICAL NAME</u>	<u>CAS REGISTRY No.</u>	<u>% (Approx)</u>	<u>ACGIH TLV-TWA</u>
Granite*	None	76	See Section VI
*Quartz (crystalline silica) content typically greater than 1%	14808-60-7	-	See Section VI
Basalt	None	19	See Section VI
Limestone	None	4	See Section VI
Mainly Natural Plant Extracts (as Catalyst)	None	1	Not Applicable

III – PHYSICAL DATA

APPEARANCE AND ODOR Angular particles, light salt-and-peppered colored, ranging in size from 1/8 inch to dust. Slight, sweet odor.	SPECIFIC GRAVITY 2.60 – 2.81
BOILING POINT Not Applicable	VAPOR DENSITY IN AIR (Air = 1) Not Applicable
VAPOR PRESSURE Not Applicable	% VOLATILE, BY VOLUME 0%
EVAPORATION RATE 0	SOLUBILITY IN WATER Negligible

IV – REACTIVITY DATA

STABILITY Stable	CONDITIONS TO AVOID Avoid contact with incompatible materials (See Below)
----------------------------	---

INCOMPATIBILITY (Materials to avoid)

Contact with powerful oxidizing agents such as fluorine trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride may cause fire and/or explosions. Silica dissolves in hydrofluoric acid producing a corrosive gas – silicon tetrafluoride.

HAZARDOUS DECOMPOSITION PRODUCTS

None known

HAZARDOUS POLYMERIZATION

Not known to polymerize

V – FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (Method used) Not flammable	FLAMMABLE LIMITS IN AIR Not flammable
--	---

EXTINGUISHING AGENTS None required
--

UNUSUAL FIRE AND EXPLOSION HAZARDS None known

VI – TOXICITY AND FIRST AID

EXPOSURE LIMITS

(When exposure to this product and other chemicals is concurrent, the exposure limit must be defined in the workplace)

Unless specified otherwise, limits are expressed as milligrams of substance per cubic meter of air (mg/M³), 8-hour time-weighted averages (TWA). Limits for cristobalite and tridymite (other forms of crystalline silica) are equal to one-half of the limits for quartz.

- **Respirable crystalline silica (quartz):** ACGIH TLV, OSHA PEL MSHA-proposed PEL = 0.1.
- **Respirable Dust:** MSHA = $10 \div (\% \text{ respirable quartz} + 2)$.
- **Total Dust:** MSHA = $30 \div (\% \text{ quartz} + 3)$.

Other Particulates: ACGIH TVL = 10 (total particulate, not otherwise regulated), OSHA PEL = 5 (respirable dust, not otherwise regulated) 15 (total dust, not otherwise regulated); MSHA = 10 (total “nuisance” dust); MSHA-proposed = 5 (respirable mine dust).

Effects described in this section are believed not to occur if exposures are maintained at or below appropriate TLVs. Because of the wide variation in individual susceptibility, these exposure limits may not be applicable to all persons and those with medical conditions listed below.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Inhaling respirable dust and/or crystalline silica may aggravate existing respiratory system disease(s) and/or dysfunctions. Exposure to dust may aggravate existing skin and/or eye conditions.

PRIMARY ROUTE(S) OF EXPOSURE

Inhalation

Skin

Ingestion

ACUTE TOXICITY

Exposure to dust may irritate respiratory system, eyes, and skin.

FIRST AID

- **Dust in Eyes:** Flush eyes with running water for 15 minutes. Contact a physician if irritation persists or later develops.
- **Dust on Previously Irritated Skin:** Wash with soap and water. Contact a physician if irritation is aggravated.
- **Dust Inhalation:** Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops.

CHRONIC TOXICITY

Chronic exposure to respirable granite dust in excess of appropriate exposure limits has caused silicosis, a progressive pneumoconiosis (lung disease). Chronic tobacco smoking may further increase the risk of developing chronic lung problems.

Symptoms of Silicosis: Not all individuals with silicosis will exhibit symptoms (signs) of the disease. However, silicosis is progressive, and symptoms can appear at any time, even years after exposures have ceased. Symptoms of silicosis may include (but are not limited to): Shortness of breath; difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure. Persons with silicosis have an increased risk of pulmonary tuberculosis infection.

Granite is not listed on the NTP, IARC or OSHA lists of carcinogens. Crystalline silica, a major component of this product, is on the NTP and IARC carcinogen lists, but not on the OSHA carcinogen list. IARC and NTP have determined that there is sufficient evidence for carcinogenicity to experimental animals exposed to crystalline silica and limited evidence for carcinogenicity to humans. “Limited evidence” means that a causal relationship is possible; however, other explanations such as chance, bias or confounding factors cannot adequately be excluded.

VII – PERSONAL PROTECTION AND CONTROLS

RESPIRATORY PROTECTION

For respirable quartz levels that exceed or are likely to exceed an 8hr-TWA of 0.1 mg/M³, an approved dust respirator must be worn. For respirable quartz levels that exceed or are likely to exceed an 8hr-TWA of 0.5 mg/M³, an approved HEPA filter respirator must be worn. If respirable quartz levels exceed or are likely to exceed and 8hr-TWA or 5 mg/M³, a positive pressure, full face respirator or equivalent is required. Follow applicable respirator use, fitting and training standards.

VENTILATION

Local exhausted or general ventilation adequate to maintain exposures below appropriate exposure limits.

SKIN PROTECTION

See “Hygiene” section below.

EYE PROTECTION

Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or are anticipated.

HYGIENE

Wash dust-exposed skin with soap and water before eating, drinking, smoking and using toilet facilities. Wash work clothes after each use.

OTHER CONTROL MEASURES

Respirable dust and quartz levels should be monitored regularly. Dust levels in excess of appropriate exposure limits should be reduced by all feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosure and enclosed employee work stations.

VII – STORAGE AND HANDLING PRECAUTIONS

Respirable dust may be generated during processing, handling and storage. The controls identified in Section VII of the MSDS should be applied as appropriated.

VIII – SPILL, LEAK AND DISPOSAL PRACTICES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

The control identified in Section VII of MSDS should be applied as appropriate. Spilled materials, where dust can be generated, may overexpose cleanup personnel to respirable dust. Wetting of spilled material and/or use of respiratory protective equipment may be necessary. Avoid dry sweeping.

This product is not subject to the reporting requirements of Title III of SARA, 1986, and 40 CFR 372.

WASTE DISPOSAL METHOD

Dispose of waste materials only in accordance with applicable federal, state, and local laws and regulations.

IX – TRANSPORTATION

DOT HAZARD CLASSIFICATION

None

PLACARD REQUIRED

None

LABEL REQUIRED

Label as required by the OSHA Hazard Communication standard (29 CFR 1910.1200(f)), and applicable state and local regulations.

Manufactured & Guaranteed by Western Applied Technologies, Inc. (dba HealthySoil®):

HealthySoil® (<http://www.healthysoil.com>)

Address: PO Drawer T • 425 Alta Street, Building 16 • Gonzales, CA 93926

Phone: +1 (800) 414-3111 (8 AM – 5 PM PST, Mon – Fri)

NOTICE: HealthySoil® believes that the information contained on this Material Safety Data Sheet is accurate. The suggested procedures are passed on experience as of the date of publication. They are not necessarily all-inclusive or fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulation, rules or insurance requirement.

NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE IS MADE.
MSDS 103011-001