

Material Safety Data Sheet

Section 1: PRODUCT AND COMPANY INFORMATION

Product Name(s): Soil

Product Identifiers: Top Soil, Overburden, Fill Dirt

Manufacturer:
Lafarge North America Inc.
12018 Sunrise Valley Drive, Suite 500
Reston, VA 20191

Information Telephone Number:
703-480-3600 (9am to 5pm EST)

Emergency Telephone Number:
1-800-451-8346 (3E Hotline)

Product Use: Soil is used for landscaping, domestic gardening, reclamation and other construction applications. Soil is distributed in bags, totes and bulk shipment.

Note: This MSDS covers many types of soil. Individual composition of hazardous constituents will vary between soil types.

Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percent (By Weight)	CAS Number	OSHA PEL -TWA (mg/m ³)	ACGIH TLV-TWA (mg/m ³)	LD ₅₀	LC ₅₀
Crystalline Silica (quartz)	varies	14808-60-7	[(10) / (%SiO ₂ +2)] (R); [(30) / (%SiO ₂ +2)] (T)	0.025 (R)	NA	NA
Particulate Not Otherwise Regulated	-	NA	5 (R); 15 (T)	3 (R); 10 (T)	NA	NA

Note: This product contains sand, silt, clay, and decomposed organic matter. The crystalline silica (quartz) content naturally varies depending on the composition of the soil.

Section 3: HAZARD IDENTIFICATION

	WARNING	 Eye Protection Gloves
	Irritant: Causes eye, skin and inhalation irritation Use proper engineering controls, work practices, and Personal Protective Equipment (PPE) to prevent exposure to dust. Read MSDS for details.	

Emergency Overview: Soil is rich dark brown material of fine particles that may contain small rocks and other naturally occurring material (e.g. roots, twigs). It has a slight earthy odor. It is not combustible or explosive. A single, short-term exposure to soil presents little or no hazard. Wash hands and exposed skin with soap and water after use.

Potential Health Effects:

Eye Contact: Eye contact to airborne dust may cause immediate or delayed irritation or inflammation. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

Skin Contact: Soil may cause dry skin, abrasions, discomfort, and irritation.

Section 3: HAZARD IDENTIFICATION (continued)

Inhalation (acute):	Breathing dust may cause nose, throat or lung irritation, including choking, depending on the degree of exposure.
Inhalation (chronic):	Risk of injury depends on duration and level of exposure.
<u>Silicosis:</u>	This product contains trace amounts of crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease.
<u>Carcinogenicity:</u>	Soil is not listed as a carcinogen by IARC or NTP; however, soil contains trace amounts of crystalline silica that is classified by IARC and NTP as a known human carcinogen.
Ingestion:	Do not ingest soil. Although ingestion of small quantities of soil is not known to be harmful, large quantities can cause intestinal distress.
Medical Conditions Aggravated by Exposure:	Individuals with lung disease (e.g. bronchitis, emphysema, COPD, pulmonary disease) can be aggravated by exposure to dust.

Section 4: FIRST AID MEASURES

Eye Contact:	Rinse eyes thoroughly with water for at least 15 minutes, including under lids, to remove all particles. Seek medical attention for abrasions.
Skin Contact:	Wash with water and a pH neutral soap or a mild skin detergent. Seek medical attention for rash or irritation.
Inhalation:	Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside.
Ingestion:	Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention or contact poison control center immediately.

Section 5: FIREFIGHTING MEASURES

Flashpoint & Method:	Non-combustible	Firefighting Equipment:	Soil poses no fire-related hazard. A SCBA is recommended to limit exposures to combustion products when fighting any fire.
General Hazard:	Avoid breathing dust.	Combustion Products:	None.
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.		

Section 6: ACCIDENTAL RELEASE MEASURES

General:	Place spilled material into a container, if uncontaminated, product can be reused. Avoid actions that cause the soil to become airborne. Avoid inhalation of dust. Wear appropriate protective equipment as described in Section 8. Do not wash soil down sewage and drainage systems or into bodies of water (e.g. streams).
Waste Disposal Method:	Dispose of soil according to Federal, State, Provincial and Local regulations.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid.	Evaporation Rate:	NA.
Appearance:	Dark brown.	pH (in water):	5.5-7.0
Odor:	Earthy.	Boiling Point:	NA.
Vapor Pressure:	NA.	Freezing Point:	None, solid.
Vapor Density:	NA.	Viscosity:	None, solid.
Specific Gravity:	NA.	Solubility in Water:	Insoluble

Section 10: STABILITY AND REACTIVITY

Stability:	Stable. Avoid contact with incompatible materials.		
Incompatibility:	Stable.		
Hazardous Polymerization:	None.	Hazardous Decomposition:	None.

Section 11 and 12: TOXICOLOGICAL AND ECOLOGICAL INFORMATION

For questions regarding toxicological and ecological information refer to contact information in Section 1.

Section 13: DISPOSAL CONSIDERATIONS

Dispose of waste and containers in compliance with applicable Federal, State, Provincial and Local regulations.

Section 14: TRANSPORT INFORMATION

This product is not classified as a Hazardous Material under U.S. DOT or Canadian TDG regulations.

Section 15: REGULATORY INFORMATION

OSHA/MSHA Hazard Communication:	This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's hazard communication program.
CERCLA/SUPERFUND:	This product is not listed as a CERCLA hazardous substance.
EPCRA SARA Title III:	This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is considered a hazardous chemical and a delayed health hazard.
EPCRA SARA Section 313:	This product contains none of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
RCRA:	If discarded in its purchased form, this product would not be a hazardous waste either by listing or characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.
TSCA:	Crystalline silica is exempt from reporting under the inventory update rule.
California Proposition 65:	Crystalline silica (airborne particulates of respirable size) is known by the State of California to cause cancer.
WHMIS/DSL:	Soil may be subject to WHMIS depending on the intended use and worker exposure. Soil containing crystalline silica is classified as D2A, and is subject to WHMIS requirements.



Section 16: OTHER INFORMATION
Abbreviations:

>	Greater than	NA	Not Applicable
ACGIH	American Conference of Governmental Industrial Hygienists	NFPA	National Fire Protection Association
CAS No	Chemical Abstract Service number	NIOSH	National Institute for Occupational Safety and Health
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	NTP	National Toxicology Program
		OSHA	Occupational Safety and Health Administration
CFR	Code for Federal Regulations	PEL	Permissible Exposure Limit
CL	Ceiling Limit	pH	Negative log of hydrogen ion
DOT	U.S. Department of Transportation	PPE	Personal Protective Equipment
EST	Eastern Standard Time	R	Respirable Particulate
HEPA	High-Efficiency Particulate Air	RCRA	Resource Conservation and Recovery Act
HMIS	Hazardous Materials Identification System	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	T	Total Particulate
		TDG	Transportation of Dangerous Goods
LC ₅₀	Lethal Concentration	TLV	Threshold Limit Value
LD ₅₀	Lethal Dose	TWA	Time Weighted Average (8 hour)
mg/m ³	Milligrams per cubic meter	WHMIS	Workplace Hazardous Materials Information System
MSHA	Mine Safety and Health Administration		

This MSDS (Sections 1-16) was revised on March 1, 2011.

An electronic version of this MSDS is available at: www.lafarge-na.com under the Sustainability section.

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