

MATERIAL SAFETY DATA SHEET

Date last revised: 1/15/98

I. General Information

Chemical Name & Synonyms SHALE ROCK - AGGREGATE	Trade Name & Synonyms EXPANDED SHALE - SOLITE
Chemical Family NOT APPLICABLE	Formula NOT APPLICABLE
Proper DOT Shipping Name NONE	DOT Hazard Classification NONE
Manufacturer	Manufacturer's Phone Number
Manufacturer's Address	Chemtrec Phone Number NONE

II. Ingredients

Principal Hazardous Components	Percent	Threshold Limit Value (units)
SILICA		EXPOSURE LIMITS VARY WITH THE % QUARTZ IN DUST. ALL LIMITS ARE FOR 8-HR. TWA
THE SILICA CONTENT OF THIS MATERIAL IS PRIMARILY OF THE AMORPHOUS TYPE. QUARTZ (CRYSTALLINE SILICA) MAY BE PRESENT IN EXCESS OF 1%. HOWEVER IT IS LOCKED UP IN A GLASSY MATRIX. THE CHEMICAL AND CRYSTALLINE CONSTITUENTS ARE THE SAME AS FOUND IN COMMON NATURAL SOILS.		EXPOSURES. TOTAL DUST (AOGTH & MSHA) = $30\text{mg}/\text{M}^3 \div (\% \text{ QUARTZ} + 3)$; TOTAL DUST (OSHA) = $30\text{mg}/\text{M}^3 \div (\% \text{ QUARTZ} + 2)$ RESPIRABLE DUST (AOGTH, MSHA & OSHA) = $10\text{mg}/\text{M}^3 \div (\% \text{ QUARTZ} + 2)$

III. Physical Data

Boiling Point (F) NOT APPLICABLE	Specific Gravity (H ₂ O = 1) APPROXIMATELY 1.55 (SSD)
Vapor Pressure (mm Hg.) 0	Percent Volatile By Volume (%) 0%
Vapor Density (Air=1) NOT APPLICABLE	Evaporation Rate (_____ = 1) 0
Solubility in Water NEGLIGIBLE	pH NOT APPLICABLE
Appearance & Odor DARK GRAY ANGULAR PARTICLES. NO ODOR.	

IV. Fire & Explosion Hazard Data

Flash Point (Test Method) NOT FLAMMABLE	Auto Ignition Temperature NOT APPLICABLE	
Flammable Limits NOT FLAMMABLE	LEL	UEL
Extinguishing Media NONE REQUIRED		
Special Fire Fighting Procedures NONE REQUIRED		
Unusual Fire & Explosion Hazards NONE KNOWN		

V. Health Hazard Data

Threshold Limit Value	OSHA Threshold Limit Value	ACGIH Threshold Limit Value
SEE SECTION II	SEE SECTION II	SEE SECTION II
Carcinogen - NTP Program	Carcinogen - OSHA Program	Carcinogen - IARC Program
NOT LISTED	NOT LISTED	NOT LISTED
Symptoms of Exposure		
EXPOSURE TO DUST MAY IRRITATE RESPIRATORY SYSTEM, EYES, AND SKIN.		
Medical Conditions Aggravated by Exposure		
INHALING RESPIRABLE DUST MAY AGGRAVATE EXISTING RESPIRATORY SYSTEM DISEASE(S) AND/OR DYSFUNCTION. EXPOSURE TO DUST MAY AGGRAVATE EXISTING SKIN AND/OR EYE CONDITIONS.		
Primary Route(s) of Entry		
INHALATION - EXPOSURE TO DUST MAY IRRITATE RESPIRATORY SYSTEM, EYES, AND SKIN.		
Emergency First Aid		
<i>DUST IN EYES</i> :- FLUSH EYES WITH RUNNING WATER FOR 15 MINUTES. CONTACT PHYSICIAN IF IRRITATION PERSISTS. <i>DUST ON PREVIOUSLY IRRITATED SKIN</i> :- WASH WITH SOAP AND WATER. CONTACT A PHYSICIAN IF IRRITATION IS AGGRAVATED. <i>DUST INHALATION</i> :- REMOVE TO FRESH AIR. DUST IS THROAT AND NASAL PASSAGES SHOULD CLEAR SPONTANEOUSLY. CONTACT PHYSICIAN IF IRRITATION PERSISTS.		

VI. Reactivity Data

Stability	<input type="checkbox"/> Unstable	Conditions to Avoid
	<input checked="" type="checkbox"/> Stable	NONE KNOWN
Incompatibility		Materials to Avoid
		NONE KNOWN
Hazardous	<input type="checkbox"/> May Occur	Conditions to Avoid
		NONE KNOWN
Polymerization	<input checked="" type="checkbox"/> Will Not Occur	
Hazardous Decomposition Products		
NONE KNOWN		

VII. Environmental Protection Procedures

Spill Response	SPIILLED 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.
Waste Disposal Method	PICKUP AND REUSE CLEAN MATERIALS. DISPOSE OF WASTE MATERIALS ONLY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

VIII. Special Protection Information

Eye Protection	SAFETY GLASSES WITH SIDE SHIELDS DUST GOGGLES (EXCESSIVE DUSTY CONDITIONS)
Skin Protection	WASH DUST-EXPOSED SKIN WITH SOAP & WATER. WASH WORK CLOTHES AFTER EACH USE.
Respiratory Protection (Specific Type)	Ventilation Recommended
APPROVED NIOSH-MSHA DUST RESPIRATORS	LOCAL EXHAUST OR GENERAL VENTILATION ADEQUATE TO MAINTAIN EXPOSURES.
Other Protection	RESPIRABLE DUST LEVELS SHOULD BE MONITORED REGULARLY. DUST LEVELS IN EXCESS OF APPROPRIATE TLV'S SHOULD BE REDUCED BY ALL FEASIBLE ENGINEERING CONTROLS.

IX. Special Precautions

Hygienic Practices in Handling & Storage	RESPIRABLE DUST MAY BE GENERATED DURING PROCESSING, HANDLING, AND STORAGE. THE CONTROLS IDENTIFIED IN SECTION VIII OF THE MSDS SHOULD BE APPLIED AS APPLICABLE.
Precautions for Repair & Maintenance of Contaminated Equipment	SEE SECTION VIII
Other Precautions	SEE SECTION VIII. NOTICE: SOLITE CORPORATION BELIEVES THAT THE INFORMATION CONTAINED ON THIS MATERIAL SAFETY DATA SHEET IS ACCURATE. THE SUGGESTED PROCEDURES ARE BASED ON EXPERIENCE AS OF THE DATE OF PUBLICATION. THEY ARE NOT NECESSARILY ALL-INCLUSIVE NOR FULLY ADEQUATE IN EVERY CIRCUMSTANCE. ALSO, THE SUGGESTIONS SHOULD NOT BE CONFUSED WITH NOR FOLLOWED IN VIOLATION OF APPLICABLE LAWS, REGULATIONS.