



TEICHERT AGGREGATES

P.O. BOX 15002
SACRAMENTO, CALIFORNIA 95851

MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: FEBRUARY 2004

I. IDENTIFICATION

PRODUCT NAME:	GRANITE		
CHEMICAL NAME:	GRANITE		
SYNONYMS:	AGGREGATE, MANUFACTURED SAND, STONE, ROCK, BALLAST, RIP RAP, BOULDERS		
DEPARTMENT OF TRANSPORTATION	HAZARD CLASSIFICATION	N/A	
	SHIPPING NAME	N/A	
MANUFACTURER'S NAME	TEICHERT AGGREGATES		
ADDRESS:	P.O. BOX 15002, SACRAMENTO, CA 95851		
TELEPHONE NUMBER:	(916) 484-3011	DATE REVISED:	AUGUST 2003

II. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	N/A	FREEZING POINT	N/A
SPECIFIC GRAVITY (H ₂ O = 1)	2.6 - 2.9	VAPOR PRESSURE	N/A
VAPOR DENSITY (air = 1)	N/A	SOLUBILITY IN WATER, % BY WT.	NEGLIGIBLE
PERCENT VOLATILES BY VOLUME	N/A	EVAPORATION RATE (Butyl Acetate = 1)	N/A
APPEARANCE AND ODOR	ANGULAR PARTICLES, VARIOUS COLORS, RANGING IN SIZE FROM SAND TO BOULDERS. NO ODOR.		

III. HAZARDOUS INGREDIENTS

MATERIAL	%	PEL (units)	TLV (units)	CAS NUMBER
GRANITE*	100	N/E	N/E	NONE
*COMPOSITION VARIES NATURALLY-TYPICALLY CONTAINS QUARTZ (CRYSTALLINE SILICA).		0.3 mg/m ³ * 0.1 mg/m ³ **	0.05 mg/m ³ **	14808-060-7
		*TOTAL DUST	**RESPIRABLE FRACTION	

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	NOT FLAMMABLE			
FLAMMABLE LIMITS IN AIR, % by volume	LOWER (LEL)	N/A	UPPER (UEL)	N/A
EXTINGUISHING MEDIA	NONE REQUIRED			
SPECIAL FIRE FIGHTING PROCEDURES	N/A			
UNUSUAL FIRE AND EXPLOSION HAZARDS	CONTACT WITH POWERFUL OXIDIZING AGENTS MAY CAUSE FIRE AND/OR EXPLOSIONS.			

EMERGENCY PHONE NUMBER

N/A = not applicable

(800) 287-7383

N/E = not established

V. HEALTH HAZARD DATA

EFFECTS OF ACUTE OVEREXPOSURE

SWALLOWING	EXPECTED TO BE PRACTICALLY NON-TOXIC. INGESTION OF LARGE AMOUNTS MAY CAUSE GASTROINTESTINAL IRRITATION AND BLOCKAGE.
SKIN CONTACT	DIRECT CONTACT MAY CAUSE IRRITATION BY MECHANICAL ABRASION.
INHALATION	DUSTS MAY IRRITATE THE NOSE, THROAT, AND RESPIRATORY TRACT BY MECHANICAL ABRASION. COUGHING, SNEEZING, AND SHORTNESS OF BREATH MAY OCCUR FOLLOWING EXPOSURES IN EXCESS OF APPROPRIATE EXPOSURE LIMITS.
EYE CONTACT	DIRECT CONTACT WITH DUST MAY CAUSE IRRITATION BY MECHANICAL ABRASION.

EFFECTS OF REPEATED OVEREXPOSURE

USE OF GRANITE FOR CONSTRUCTION PURPOSES IS NOT BELIEVED TO CAUSE ADDITIONAL ACUTE TOXIC EFFECTS. HOWEVER, REPEATED OVEREXPOSURES TO VERY HIGH LEVELS OF RESPIRABLE CRYSTALLINE SILICA (QUARTZ, CRISTOBALITE, TRIDYMIT) HAVE CAUSED SILICOSIS. SILICOSIS IS A RAPIDLY PROGRESSIVE, INCURABLE LUNG DISEASE THAT IS USUALLY FATAL. SYMPTOMS INCLUDE (BUT ARE NOT LIMITED TO): SHORTNESS OF BREATH, COUGH, FEVER, WEIGHT LOSS, AND CHEST PAIN.

EMERGENCY AND FIRST AID PROCEDURES

SWALLOWING	IF PERSON IS CONSCIOUS, GIVE LARGE QUANTITY OF WATER AND INDUCE VOMITING; HOWEVER, NEVER ATTEMPT TO MAKE AN UNCONSCIOUS PERSON DRINK OR VOMIT. GET IMMEDIATE MEDICAL ATTENTION
SKIN	WASH WITH SOAP AND WATER. CONTACT A PHYSICIAN IF IRRITATION PERSISTS OR LATER DEVELOPS
INHALATION	REMOVE TO FRESH AIR. DUST IN THROAT AND NASAL PASSAGES SHOULD CLEAR NATURALLY. CONTACT A PHYSICIAN IF IRRITATION PERSISTS OR LATER DEVELOPS.
EYES	IMMEDIATELY FLUSH EYE(S) WITH PLENTY OF CLEAN WATER FOR AT LEAST 15 MINUTES, WHILE HOLDING THE EYELID(S) OPEN. OCCASIONALLY LIFT THE EYELID(S) TO ENSURE THOROUGH RINSING. BEYOND FLUSHING, DO NOT ATTEMPT TO REMOVE MATERIAL FROM THE EYE(S). CONTACT A PHYSICIAN IF IRRITATION PERSISTS OR LATER DEVELOPS.

SUSPECTED CANCER AGENT? NO Federal OSHA NO NTP X IARC

NOTE:

(1) IARC LISTS CRYSTALLINE SILICA AS A KNOWN HUMAN CARCINOGEN.

(2) EXPOSURE TO AIRBORNE SILICA DUST DURING NORMAL PRODUCT USE IS UNLIKELY BECAUSE PRODUCT IS IN SOLID FORM. HOWEVER, MECHANICAL ACTIONS, SUCH AS GRINDING, SANDING, AND CUTTING MAY GENERATE FINE AIRBORNE CRYSTALLINE SILICA DUST.

PROP 65 WARNING: Crushed granite contains quantities of fine crystalline silica. Crystalline silica (quartz) dust is listed under Title 22, Section 12000, as a chemical known to the State of California to cause cancer. Always familiarize yourself with the hazards of the materials and equipment you are using and follow the precautions indicated on product labels, Material Safety Data Sheets and your health and safety training program.

VI. REACTIVITY DATA

STABILITY		CONDITION TO AVOID	NONE
UNSTABLE	STABLE		
	X		
INCOMPATIBILITY (materials to avoid)		NONE	
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS		NONE	
HAZARDOUS POLYMERIZATION		CONDITION TO AVOID	NONE
May Occur	Will Not Occur		
	X		

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	THE PERSONAL PROTECTION AND CONTROLS IDENTIFIED BELOW SHOULD BE USED AS APPROPRIATE. SPILLED MATERIAL, WHERE DUST CAN BE GENERATED, MAY OVEREXPOSE CLEANUP PERSONNEL TO RESPIRABLE CRYSTALLINE SILICA-CONTAINING DUST. WETTING OF SPILLED MATERIAL AND/OR USE OF RESPIRATORY PROTECTIVE EQUIPMENT MAY BE NECESSARY. DO NOT DRY SWEEP SPILLED MATERIAL. PREVENT SPILLED MATERIALS FROM INADVERTENTLY ENTERING STREAMS, DRAINS, OR SEWERS.
WASTE DISPOSAL METHOD	DISPOSE OF WASTE MATERIALS ONLY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	RESPIRABLE QUARTZ LEVELS THAT EXCEED OR ARE LIKELY TO EXCEED AN 8-HR TWA OF 0.1 mg/m ³ , A NIOSH APPROVED DUST RESPIRATOR MUST BE WORN.
VENTILATION	LOCAL EXHAUST OR GENERAL VENTILATION ADEQUATE TO MAINTAIN EXPOSURES BELOW APPROPRIATE EXPOSURE LIMITS.
HYGIENE	WASH DUST-EXPOSED SKIN WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, AND USING TOILET FACILITIES. WASH WORK CLOTHES AFTER EACH USE.
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.
GLOVES	SEE "HYGIENE" ABOVE

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: RESPIRABLE CRYSTALLINE SILICA-CONTAINING DUST MAY BE GENERATED DURING PROCESSING HANDLING, AND STORAGE. USE PERSONAL PROTECTION.

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