



TEICHERT AGGREGATES

MATERIAL SAFETY DATA SHEET

P.O. BOX 15002
SACRAMENTO, CALIFORNIA 95851

EFFECTIVE DATE: FEBRUARY 2004

I. IDENTIFICATION

PRODUCT NAME:	SAND & GRAVEL		
CHEMICAL NAME:	NATURAL SAND OR GRAVEL		
SYNONYMS:	CONSTRUCTION AGGREGATE, ROCK, STONE		
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)	2.2 - 3.0	VAPOR PRESSURE	N/A
VAPOR DENSITY (air = 1)	N/A	SOLUBILITY IN WATER, % BY WT.	NIL
APPEARANCE AND ODOR	PRODUCTS ARE A COMBINATION OF COMMON SAND, GRAVEL AND CRUSHED ROCK; SIZE OF PARTICLES VARIES ACCORDING TO PRODUCT; NO SIGNIFICANT ODOR.		

III. HAZARDOUS INGREDIENTS

MATERIAL	%	PEL	TLV	CAS NUMBER
QUARTZ* - NATURAL SAND AND GRAVEL	>1	0.1 mg/m ³ ** 0.3 mg/m ³ ***	0.05 mg/m ³ **	14808-060-7
FELDSPAR		N/E	N/E	N/E
SILICATES		N/E	N/E	N/E

*QUARTZ IS A NATURALLY OCCURRING FORM OF CRYSTALLINE SILICA; COMPOSITION VARIES NATURALLY.

RESPIRABLE CRYSTALLINE SILICA (QUARTZ) *TOTAL CRYSTALLINE SILICA (QUARTZ)

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	N/A			
FLAMMABLE LIMITS IN AIR, % by volume	LOWER	N/A	UPPER	N/A
EXTINGUISHING MEDIA	N/A			
SPECIAL FIRE FIGHTING PROCEDURES	N/A			
UNUSUAL FIRE AND EXPLOSION HAZARDS	CONTACT WITH POWERFUL OXIDIZING AGENTS MAY CAUSE FIRE AND/OR EXPLOSIONS. SEE SECTION VI.			

EMERGENCY PHONE NUMBER

N/A = not applicable

(800) 287-7383

N/E = not established

V. HEALTH HAZARD DATA

EFFECTS OF ACUTE OVEREXPOSURE

SWALLOWING	NO SIGNIFICANT HAZARD POSED.
SKIN CONTACT	SHORT TERM IRRITATION.
INHALATION	INHALATION OF HIGH CONCENTRATIONS OF QUARTZ DUST CAN LEAD TO THE LUNG DISEASE KNOWN AS SILICOSIS, WITH COUGH AND SHORTNESS OF BREATH.
EYE CONTACT	SHORT TERM IRRITATION.

EFFECTS OF REPEATED OVEREXPOSURE

AIRBORNE PARTICLES CAN CAUSE EYE IRRITATION. INHALATION OF VERY HIGH LEVELS OF AIRBORNE DUST FOR SEVERAL WEEKS MAY PRODUCE COUGHING, FEVER, AND WEIGHT LOSS.

PROLONGED AND ROUTINE INHALATION OF QUARTZ DUST CAN LEAD TO DELAYED LUNG DISEASE KNOWN AS SILICOSIS. EARLY SYMPTIONS OF SILICOSIS INCLUDE COUGHING, WHEEZING, SHORTNESS OF BREATH. CHRONIC EXPOSURE MAY ALSO RESULT IN OTHER LUNG PROBLEMS SUCH AS CHRONIC OBSTRUCTIVE PULMONARY DISEASE.

IARC LISTS CRYSTALLINE SILICA AS A HUMAN CARCINOGEN.

PROP 65 WARNING: SAND AND GRAVEL 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.

EMERGENCY AND FIRST AID PROCEDURES

SWALLOWING	SEEK MEDICAL ADVICE.
SKIN	NO HAZARD POSED – USE GOOD HYGIENE PRACTICES.
INHALATION	MOVE TO FRESH AIR.
EYES	FLUSH EYES WITH CLEAN WATER FOR AT LEAST 15 MINUTES UNTIL FREE OF PARTICLES. DO NOT RUB EYES. SEEK MEDICAL ATTENTION IF PARTICLES CANNOT BE READILY DISLODGED.

VI. REACTIVITY DATA

STABILITY		CONDITION TO AVOID	AVOID CONTACT WITH INCOMPATIBLE MATERIALS. (SEE BELOW)
UNSTABLE	STABLE		
	X		
INCOMPATIBILITY (materials to avoid)		CONTACT WITH POWERFUL OXIDIZING AGENTS SUCH AS FLUORINE MAY CAUSE FIRE AND/OR EXPLOSIONS. SILICA DISSOLVES READILY IN HYDROFLUORIC ACID PRODUCING A CORROSIVE GAS-SILICON TETRAFLUORIDE.	
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	SPILLED PRODUCT CAN SIMPLY BE COLLECTED FOR RE-USE OR DISPOSAL AS NON-HAZARDOUS WASTE. AVOID INHALATION OF DUST BY GOOD WORK PRACTICES OR THROUGH USE OF RESPIRATORY PROTECTION AS NECESSARY TO MAINTAIN EXPOSURE BELOW THE CAL/OSHA PERMISSIBLE EXPOSURE LIMIT (PEL). PREVENT SPILLED MATERIALS FROM ENTERING STREAMS, DRAINAGES, OR SEWERS.
WASTE DISPOSAL METHOD	PRODUCT IS NOT CLASSIFIED AS HAZARDOUS WASTE. PICKUP AND REUSE CLEAN MATERIALS.

VIII. PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	IF DUST CONCENTRATIONS EXCEED THE CAL/OSHA PEL, WEAR NIOSH APPROVED RESPIRATORY PROTECTION APPROPRIATE FOR THE CIRCUMSTANCES.
VENTILATION	WHERE FEASIBLE, CONTROL AIRBORNE DUST LEVELS THROUGH GOOD WORK PRACTICES AND ADEQUATE VENTILATION.
PROTECTIVE GLOVES	NOT REQUIRED.
EYE PROTECTION	AVOID EYE CONTACT. WEAR SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES, AS APPROPRIATE.
OTHER PROTECTIVE EQUIPMENT	NOT REQUIRED.

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: NONE

X. STORAGE AND HANDLING

THIS PRODUCT IS NOT INTENDED OR DESIGNED FOR USE AS AN ABRASIVE BLASTING MEDIUM OR FOR FOUNDRY APPLICATIONS AND SHOULD NOT BE USED FOR THESE PURPOSES.

FOLLOW THE PERSONAL PROTECTION INFORMATION AS SET FORTH IN SECTION VIII OF THIS MSDS WHEN HANDLING PRODUCT. RESPIRABLE CRYSTALLINE SILICA CONTAINING DUST MAY BE GENERATED DURING PROCESSING AND HANDLING.

DO NOT STORE NEAR FOOD, BEVERAGES, OR SMOKING MATERIALS.

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REPLACES 2/94 MSDS

Revised 2/04