



TEICHERT AGGREGATES

P.O. BOX 15002
SACRAMENTO, CALIFORNIA 95851

MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: FEBRUARY 2004

I. IDENTIFICATION

TRADE NAME:	RECYCLED ASPHALT PAVING CONCRETE		
COMMON NAME:	RAP CONCRETE		
MANUFACTURER'S NAME	TEICHERT AGGREGATES, PO BOX 15002, SACRAMENTO CA 95851		
TELEPHONE NUMBER:	916 484-3011	DATE REVISED: AUGUST 2003	
PRODUCT DESCRIPTION	RECYCLED PAVEMENT MIXED WITH AGGREGATE AND PETROLEUM ASPHALT		
DEPARTMENT OF TRANSPORTATION	HAZARD CLASSIFICATION	N/A	
	SHIPPING NAME	N/A	

II. PHYSICAL PROPERTIES

BOILING POINT, 760 mm. Hg	N/E	FREEZING POINT	N/E
SPECIFIED GRAVITY (H ₂ O = 1)	2.3 - 2.6	VAPOR PRESSURE	N/E
VAPOR DENSITY (air = 1)	N/A	SOLUBILITY IN WATER, % BY WT.	NEGLIGIBLE
PERCENT VOLATILES BY VOLUME	N/E	EVAPORATION RATE (Butyl Acetate = 1)	N/E
APPEARANCE AND ODOR	COARSE BLACK MATERIAL WITH PETROLEUM ODOR		

III. HAZARDOUS INGREDIENTS

MATERIAL	%	PEL	TLV	CAS NUMBER
CRUSHED ROCK AND SAND	>90	10 mg/m ^{3*} 5 mg/m ^{3**}	10 mg/m ^{3*} 3 mg/m ^{3**}	N/E
PETROLEUM ASPHALT	<10	5 mg/m ^{3*}	0.5 mg/m ^{3***}	64741-56-6

*TOTAL DUST, PARTICULATES NOT OTHERWISE REGULATED **RESPIRABLE DUST ***FUMES, AS BENZENE-SOLUBLE AEROSOL.

NOTES:

- NATURAL SAND INCLUDES QUARTZ, A FORM OF CRYSTALLINE SILICA. SAND IS BOUND BY ASPHALT CEMENT IN THE PRODUCT AND IS NOT POTENTIALLY AIRBORNE.
- THE PRODUCT MAY CONTAIN ONE OR MORE PERFORMANCE-ENHANCING ADDITIVES. EACH IS PRESENT AT LESS THAN 1% OF THE TOTAL PRODUCT.

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	N/E			
FLAMMABLE LIMITS IN AIR, % by volume	LOWER	N/E	UPPER	N/E
EXTINGUISHING MEDIA	DRY CHEMICAL, FOAM, CO ₂			
SPECIAL FIRE FIGHTING PROCEDURES	USE OF WATER ON AN ASPHALT FIRE IN A TANK OR OTHER CONTAINER MAY CAUSE A VIOLENT ERUPTION.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	SEE ABOVE.			

EMERGENCY PHONE NUMBER

N/A = not applicable

800 287-7383

N/E = not established

V. HEALTH HAZARD INFORMATION

EFFECTS OF ACUTE OVEREXPOSURE

SWALLOWING	NOT EXPECTED TO POSE A SIGNIFICANT HEALTH HAZARD.
SKIN CONTACT	HOT MATERIAL MAY CAUSE THERMAL BURNS.
INHALATION	VAPORS/FUMES FROM HOT MATERIAL MAY CAUSE THROAT OR LUNG IRRITATION AND/OR NAUSEA, HEADACHE, AND COUGH. DUST MAY CAUSE RESPIRATORY IRRITATION.
EYE CONTACT	HOT, MOLTEN MATERIAL CAN CAUSE THERMAL BURNS. DUST MAY CAUSE EYE IRRITATION

EFFECTS OF REPEATED OVEREXPOSURE

CHRONIC SKIN CONTACT CAN RESULT IN: PHOTSENSITIZATION OF THE SKIN, AND SKIN DRYNESS/IRRITATION. CHRONIC INHALATION OF DUST OR FUMES CAN RESULT IN RESPIRATORY IRRITATION OR OTHER CONDITIONS (E.G., BRONCHITIS)

OTHER HEALTH HAZARDS

MAY AGGRAVATE PRIOR SKIN PROBLEMS SUCH AS DERMATITIS, OR PRIOR RESPIRATORY TRACT CONDITIONS SUCH AS BRONCHITIS.

EMERGENCY AND FIRST AID PROCEDURES

SWALLOWING	SEEK MEDICAL ADVICE BUT INGESTION OF SMALL AMOUNTS OF COOLED MATERIAL IS NOT EXPECTED TO POSE A SIGNIFICANT HEALTH HAZARD. INGESTION OF HOT MATERIAL WILL CAUSE THERMAL BURNS.
SKIN	IF HOT, MOLTEN MATERIAL CONTACTS SKIN, QUICKLY COOL THE AREA IN WATER. SEEK MEDICAL ATTENTION FOR EXTENSIVE BURNS. DO NOT USE SOLVENTS OR THINNER TO REMOVE ASPHALT FROM SKIN; USE VEGETABLE OIL FOLLOWED BY SOAP AND WATER OR WATERLESS HAND CLEANER.
INHALATION	REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION IF DISCOMFORT OR IRRITATION PERSISTS.
EYES	FLUSH EYES WITH LARGE AMOUNTS OF WATER. SEEK MEDICAL ATTENTION.

SUSPECTED CANCER AGENT?

NO FEDERAL OSHA NO NTP IARC

NOTE: IARC LISTS CRYSTALLINE SILICA AS PROBABLE HUMAN CARCINOGEN, NOT A KNOWN HUMAN CARCINOGEN. CRYSTALLINE SILICA POSES A HEALTH HAZARD WHEN IT IS INHALED AS A DUST. NORMAL USE OF PRODUCT (HOT, MOLTEN) DOES NOT GENERATE SILICA OR OTHER DUST.

PROP 65 WARNING: CRUSHED ROCK AND SAND IN RECYCLED ASPHALT PAVING CONCRETE 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)		STRONG OXIDIZERS, SUCH AS, STRONG ACIDS.	
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS		CARBON DIOXIDE, SULFUR DIOXIDE.	
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		MATERIAL DOES NOT POSE HAZARD TO IMMEDIATE HAZARD TO WORKERS OR THE ENVIRONMENT. TRANSFER SPILLED MATERIAL TO CONTAINERS FOR REUSE OR DISPOSAL WITH NORMAL TRASH. USE NORMAL GOOD HYGIENE PRACTICES TO MINIMIZE EXPOSURE (WEAR SKIN AND EYE PROTECTION, AS NECESSARY).	
WASTE DISPOSAL METHOD		PRODUCT IS NOT CLASSIFIED AS HAZARDOUS WASTE.	
VIII. SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (specific type)		IF AIRBORNE CONCENTRATIONS EXCEED OSHA PERMISSIBLE EXPOSURE LIMITS, WEAR NIOSH-APPROVED RESPIRATORS TO ACHIEVE EXPOSURES BELOW THE PEL.	
VENTILATION		N/A	
PROTECTIVE GLOVES		AVOID PROLONGED OR REPEATED CONTACT WITH PRODUCT. WEAR HEAT RESISTANT AND/OR IMPERMEABLE GLOVES, ACCORDING TO THE PHYSICAL STATE OF THE PRODUCT. COTTON OR LEATHER WORK GLOVES ARE <u>NOT</u> RECOMMENDED.	
EYE PROTECTION		AVOID EYE CONTACT, WEAR SAFETY GLASSES OR GOGGLES, AS NEEDED.	
OTHER PROTECTIVE EQUIPMENT		COVERALLS OR OTHER WORK CLOTHING WHICH MINIMIZES SKIN CONTACT WITH PRODUCT.	
IX. SPECIAL PRECAUTIONS			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: NONE			

X. ADDITIONAL INFORMATION

ADDITIONAL HEALTH DATA

PROP 65 WARNING: RECYCLED ASPHALT PAVING CONCRETE CONTAINS QUANTITIES OF CHRYSENE, BENZO(A)PYRENE AND BENZO(A)ANTHRACENE. THESE PETROLEUM ASPHALT COMPONENTS ARE LISTED UNDER TITLE 22, SECTION 12000, AS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. 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.

SKIN EXPOSURE TO ASPHALT CAN CAUSE WORKERS TO EXPERIENCE PHOTSENSITIZATION, A CONDITION WHERE THE EXPOSED AREA OF SKIN BECOMES VERY SENSITIVE TO SUN LIGHT AND OTHER SOURCES OF ULTRAVIOLET (UV) LIGHT. WITHOUT EXPOSURE TO UV, SENSITIVE SKIN MAY APPEAR TO BE SUN-BURNED. WITH EXPOSURE TO UV, THE SKIN MAY BLISHTER AND DEVELOP SORES.

AS WITH ANY CHEMICAL, SKIN CONTACT WITH THIS PRODUCT, AND THE BREATHING OF PRODUCT DUST, FUMES, OR VAPORS SHOULD BE MINIMIZED. WE STRONGLY RECOMMEND THAT THE PRECAUTIONS STATED IN THIS MSDS BE FOLLOWED WHEN HANDLING THE PRODUCT.

SOME TYPES OF ASPHALT CONTAIN SULFUR AND MAY FORM HYDROGEN SULFIDE GAS WHEN HEATED, OR WHEN HOT ASPHALT IS TRANSFERRED TO A STORAGE AREA AND COOLS. THIS IS PARTICULARLY HAZARDOUS WHEN HEATING OR COOLING OCCURS IN A POORLY VENTILATED AREA. WORKERS EXPOSED TO HIGH CONCENTRATIONS OF HYDROGEN SULFIDE MAY BE RENDERED UNCONSCIOUS WITHIN SECONDS AND, IF NOT IMMEDIATELY REMOVED, DIE OR SUFFER PERMANENT NERVOUS SYSTEM DAMAGE.

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