

SAFETY DATA SHEET PILOT 3000 HEAT-SET DRY MORTAR

1 IDENTIFICATION					
PROUCT NAME:	PILOT 3000 HEAT-SET DRY MORTAR EMERGENCY CONTACT:				
CHEMICAL NAME:	SUPER DUTY DRY HEAT-	SET MORTAR	1-314-963-7900		
PRODUCT USE:	HIGH TEMPERATURE RESIDENTIAL AND INDUSTRIAL APPLICATIONS				
MANUFACTURER:	ALSEY REFRACTORIES COMPANY MONDAY THRU THURSD 266 STATE ROUTE 106 SOUTH 09:00 – 15:00 US CENTRAL TIM ALSEY, IL 62610 1-314-963-7900				
2 HAZARD IDENTIFICATION HAZARD CLASSIFICATION: SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE – CATEGORY 1 CARCINOGENICTY – CATEGORY 1A* SERIOUS SKIN CORROSION/IRRITATION – CATEGORY 2 EYE DAMAGE/EYE IRRITATION – CATEGORY 3 SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE – CATEGORY 3			TEGORY 2		
SIGNAL WORD:	DANGER				
HAZARD STATEMENTS:	MAY CAUSE DAMAGE TO LUNGS THROUGH PROLONGED/REPEATED EXPOSURE THROUGH INHALATION MAY CAUSE CANCER [SILICOSIS]* CAUSES MILD SKIN IRRITATION CAUSES EYE IRRITATION				
PICTOGRAM:					
PRECALITIONARY STATE					
PRECAUTIONARY STATEMENTS: PREVENTION: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. WASH THOROUGHLY AFTER HANDLING.			ATED AREA. USE		
RESPONSE:	EYE IRRITATION:	REMOVE CONTACT LENSE SEEK MEDICAL ATTENTION			
	BREATHING:	SKIN IRRITATION: WASH WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF NECESSARY BREATHING: IF DIFFICULTY BREATHING REMOVE TO FRESH AIR, KEEP AT REST SEEK IMMEDIATE MEDICAL ATTENTION.			

*ACCORDING TO GROUP 1 OF THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), THERE IS SUFFICIENT EVIDENCE IN HUMANS FOR THE CARCINOGENICITY OF INHALED CRYSTALLINE SILICA IN THE FORM OF QUARTZ OR CRISTOBALITE FROM OCCUPATIONAL SOURCES.

3 COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS-NO	WEIGHT %
SILICA (TOTAL)		6-15
CRYSTALLINE SILICA (TOTAL)		
CRISTOBALITE (SiO ₂)**	14464-46-1	
QUARTZ (SiO ₂)**	14808-60-7	
TITANIUM DIOXIDE	13463-67-7	1-6
SODIUM SILICATE	1344-09-8	7-18
SODIUM HYDROXIDE	1310-73-2	0-5

** QUARTZ AND CRISTOBALITE, POLYMORPHS OF CRYSTALLINE SILICA, CLASSIFIED BY IARC AS KNOWN HUMAN CARCINOGENS – GROUP 1. NTP LISTS RESPIRABLE CRYSTALLINE SILICA AMONG SUBSTANCES WHICH MAY REASONABLE BE ANTICIPATED TO BE CARCINOGENS.

4 FIRST AID MEASURES			
INHALATION:	FIRST AID NOT GENERALLY REQUIRED. PRODUCT IS SUPPLIED WET. DUST CANNOT OCCUR UNTIL AFTER		
	DRYING OR SETTING. IF DIFFICULTY BREATHING OCCURS WHILE BREATHING DUST, MOVE THE PERSON TO		
	FRESH AIR AND SEEK MEDICAL ATTENTION ONLY IF NECESSARY.		
SKIN CONTACT:	IF SKIN IRRITATION OCCURS, WASH THOUROUGHLY WITH SOAP AND WATER.		
EYE CONTACT:	WASH IMMEDIATELY WITH WATER. DO NOT RUB EYES. REMOVE CONTACT LENSES. SEEK MEDICAL		
	ATTENTION IF IRRITATION PERSISTS.		
ACUTE/DELAYED:	EYES – PARTICULATES MAY CAUSE ABRASIVE EYE DAMAGE.		
	INHALATION – MAY CAUSE RESPIRARTORY TRACT IRRITATION.		
	PROLONGED INHALATION – MAY CAUSE LUNG DISEASE, INCLUDING SILICOSIS.		

ROUTES OF ENTRY: EYES, SKIN, INHALATION

5 FIRE FIGHTING MEASURES

NON-FLAMMABLE, NON-COMBUSTABLE, NON AUTO-IGNITING

NO SPECIAL INSTRUCTIONS OR CONDITIONS EXIST

6 ACCIDENTAL RELEASE MEASURES PERSONAL PRECAUTIONS: PRODUCT IS CAUSTIC. SKIN AND EYE CONTACT SHOULD BE AVOIDED.

SMALL/LARGE SPILL: SCOOP OR SHOVEL AND PLACE IN CONTAINER FOR DISPOSAL.

DISPOSE CONTAMINATED MATERIAL AS WASTE ACCORDING TO SECTION 13. ENSURE ADEQUATE VENTILATION.

7 HANDLING AND STORAGE HANDLING: PREVENT FORMATION OF DUST. ENSURE PROPER VENTILATION. KEEP RESPIRATORY DEVICE AVAILABLE.

STORAGE: STORE IN A DRY PLACE AWAY FROM EXTREME HEAT; MINIMIZE SKIN CONTACT.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

CHEMICAL NAME	CAS-NO	OSHA PEL (RESPIRABLE DUST)	
CRYSTALLINE SILICA (CRISTOBALITE)	14464-46-1	1/2 THE VALUE CALCULATED FROM THE	
CRISTALLINE SILICA (CRISTOBALITE)	14404-40-1	RESPIRABLE DUST FORMAULA FOR QUARTZ	
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	<u>10mg/m³</u>	
CRISTALLINE SILICA (QUARTZ)	14808-00-7	(%SiO ₂ +2=STEL/CEIL (C)(RESPIRABLE DUST))	
TITANIUM DIOXIDE	13463-67-7	15 mg/m ³ (TOTAL DUST)	
SODIUM SILICATE	1344-09-8	NONE ESTABLISHED	
SODIUM HYDROXIDE	1310-73-2	2 mg/m ³	

ENGINEERING MEAS	SURES:	GENERAL MECHANICAL VENTILATION IS USUALLY ADEQUATE.				
EYE/FACE PROTECTION: GOGGLES C		GOGGLES OR SAFE	S OR SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN.			
SKIN AND BODY PROTECTION: IMPERVIOUS		IMPERVIOUS GLOVE	ES, LON	G-SLEEVED AND LONG-	LEGGED CLOTHIN	NG SHOULD BE WORN TO
		PREVENT SKIN CON	ITACT.	SAFETY SHOES SHOULD	BE WORN TO PR	REVENT FOOT INJURY FROM
		ACCIDENTALLY DRO				
RESPIRATORY PROTECTION: USE A		USE A NIOSH APPROVED RESPIRATOR WHEN WORKING AROUND MATERIAL AND WHEN REMOVING				
RESPINATORT FROM	Lenon.	THIS PRODUCT AFTER SERVICE. A RESPIRATORY PROTECTION PROGRAM SHOULD BE IMPLEMENTED				
		IF EXPOSURES EXCEED OSHA PELS.				
WORK/HYGIENIC PR		Ανοίο ςοντάςτ Μ	WITH SKIN, EVES AND CLOTHING, AFTER HANDLING THIS PRODUCT, WASH HANDS			
	ACTICES.	AVOID CONTACT WITH SKIN, EYES AND CLOTHING. AFTER HANDLING THIS PRODUCT, WASH HANDS BEFORE EATING OR DRINKING.				
9 PHYSICAL AND C	HEMICAL	PROPERTIES				
APPEARANCE:	GRAYISI	H POWDER		AUTO IGNITION:	PRODUCT IS NO	DT SELF-IGNITING
PHYSICAL STATE:	GRANU	LAR MIXTURE		ODOR:	EARTHY	
PH:	9-10			WATER SOLUBILITY:	INSOLUBLE	
FLASH POINT:	NOT AP	PLICABLE		EXPLOSION LIMITS:	NOT AN EXPLOS	SION HAZARD
BOILING POINT:	NOT AP	PLICABLE		MELTING POINT:	2205%5	
	2 00 2 -	20 = / ==		MELTING POINT:	3205°F	
SPECIFIC GRAVITY: 10 STABILITY AND	2.00-3.7	-				
STABILITY: INCOMP			.e unde	R NORMAL CONDITION	NS OF USE, STOR	AGE, AND TRANSPORTATION.
PRODUCTS: CONDITIONS AVOID CONTACT WITH ALUMINUM.						
TO AVOID:	TO AVOID: AVOID DUST FORMATION. REFRACTORIES CONTAINING CRYSTALLINE SILICA MAY, AFTER SERVICE,			INE SILICA MAY, AFTER SERVICE,		
		CONTAIN MORE OR LESS CRYSTALLINE SILICA. CARE MUST BE TAKEN TO AVOID AND/OR CONTROL				
		DUST FROM DEMOLITION. IF IN DOUBT OF THE PROPER PROTECTION, SEEK ADVICE FROM A SAFETY PROFESSIONAL.				
11 TOXICOLOGICA	L INFORM					
11 TOXICOLOGICAL INFORMATION ACUTE TOXICITY PRODUCT INFORMATION:		NO DATA FOR LD50 OR LC50 FOR ORAL, DERMAL OR INHALATION ROUTES OF				
			ADMI	NISTRATION.		
CHRONIC TOXICITY:		IRRITANT TO SKIN AND MUCOUS MEMBRANES.				
CARCINOGENICITY: CARCINOGENIC IF INHALED.						
Chemical Name Carcinogenicity Category			_			
CRISTOBALITE (SiO ₂) 14464-46-1			IARC-1, MAK-1, NIOSH-Ca, NTP-K, TLV-A2			
QUARTZ (SiO₂) 14808-60-7			IARC-1, MAK-1, NIOSH-Ca, NTP-K, TLV-A2			
SILICA, VITREOUS 60676-86-0			IARC-3, NIOSH-Ca			
TITANIUM DIOXIDE 13463-67-7			IAR	C-2B, MAK-3A,NIOSH-0	La, TLV-A4	

TARGET ORGAN EFFECTS:

LUNGS, EYES, RESPIRATORY SYSTEM, SKIN

12 ECOLOGICAL INFORMATION

13 DISPOSAL INFORMATION

DISPOSAL OF PRODUCT: AS SUPPLIED, PRODUCT MAY BE DISPOSED OF IN AN APPROVED LANDFILL, IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. DUST CREATED DURING DEMOLITION OF USED PRODUCT MAY CONTAIN CRYSTALLINE SILICA.

PACKAGING DISPOSAL: REUSE, RECYCLE OR TREAT AS INDUSTRIAL WASTE.

14 TRANSPORT INFORMATION

U.S.A. DOT: NOT REGULATED.

CANADIAN TDG: NOT REGULATED.

ADDITIONAL INFORMATION: NOT DANGEROUS ACCORDING TO AVAILABLE INFORMATION.

15 REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

TSCA: THIS SUBSTANCE OR ALL THE INGREDIENTS OF THIS PRODUCT ARE ON THE CHEMICAL SUBSTANCES INVENTORY OF THE TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY). THE PRESENCE ON THIS LIST DOES NOT REQUIRE ANY LEGAL REPORTING. ALL COMPONENTS LISTED.

DSL: ALL COMPONENTS LISTED.

U.S. FEDERAL REGULATIONS

- SARA 313: NO MATERIAL LISTED IN THE COMPONENTS IN SECTION 3 OF THIS MSDS IS ON THE SARA 313 LIST.
- CALIFORNIA: CALIFORNIA PROPOSITION 65: THIS PRODUCT CONTAINS CRYSTALLINE SILICA, CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.
- OTHER STATES: CRYSTALLINE SILICA PRODUCTS ARE NOT KNOWN TO BE REGULATED BY STATES OTHER THAN CALIFORNIA; HOWEVER, STATE AND LOCAL OSHA AND EPA REGULATIONS MAY APPLY TO THESE PRODUCTS. CONTACT YOUR LOCAL AGENCY IF IN DOUBT.

WHMIS HAZARD CLASS

CLASS D - DIVISION 2 - SUB DIVISION A: CLASS D - DIVISION 2 - SUB DIVISION B:

UNTESTED MIXTURE CONTAINING A VERY TOXIC MATERIAL UNTESTED MIXTURE CONTAINING A TOXIC MATERIAL

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16 OTHER INFORMATION

REMOVAL OF REFRACTORIES:

DUE TO THE PRESENCE OF CRYSTALLINE SILICA IN USED REFRACTORY DEBRIS, CAUTION SHOULD BE USED DURING TEAR-OUT.

- 1 EMPLOYEES SHOULD BE APPRISED OF THE HAZARDS AND PRECAUTIONS FOR SAFE USE AND/OR EXPOSURE.
- 2 APPROVED RESPIRATORS, IN ACCORDANCE WITH REQUIREMENTS OF FEDERAL REGULATIONS, SHOULD BE USED FOR DUST LEVELS ABOVE ESTABLISHED EXPOSURE LIMITS FOR RESPIRABLE CRYSTALLINE SILICA.
- 3 DUST GENERATION SHOULD BE MINIMIZED BY THE USE OF DUST CONTROL EQUIPMENT OR WATER SPRAY.
- 4 WEAR PROTECTIVE CLOTHING AND VACUUM CLEAN PRIOR TO REMOVING CLOTHING.
- 5 WHERE THERE IS A POSSIBILITY OF EXPOSURE TO DUST CONTAINING RESPIRABLE CRYSTALLINE SILICA, THE FOLLOWING WARNING SHOULD BE POSTED.

FREE SILICA WORK AREA	AVOID BREATHING DUST	
DUST MAY CAUSE DELAYED LUNG INJURY [SILICOSIS]		

NOTE: THIS SAFETY DATA SHEET CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND IS NOT TO BE DISCLOSED TO THE GENERAL PUBLIC OR TO COMPETITION EXCEPT AS REQUIRED BY LAW. THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH ALSEY REFRACTORIES COMPANY OR NOT. THIS INFORMATION IS OFFERED SOLELY FOR USE IN YOUR EVALUATION OF THIS PRODUCT IN RESPECT TO SAFETY, HEALTH, AND ENVIRONMENTAL HAZARDS.

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SDS STATUS: REPLACES ALL PRIOR SDS SDS END