

1 IDENTIFICATION		
PROUCT NAME:	EXETER 45P	EMERGENCY CONTACT:
CHEMICAL NAME:	45% ALUMINA REFRACTORY BRICK	1-314-963-7900
PRODUCT USE:	HIGH TEMPERATURE INDUSTRIAL APPLICATIONS	MONDAY THRU THURSDAY, 09:00 – 15:00 US CENTRAL TIME [UTC-5]
MANUFACTURER:	ALSEY REFRACTORIES COMPANY 266 STATE ROUTE 106 SOUTH ALSEY, IL 62610 1-314-963-7900	
2 HAZARD IDENTIFICA		
HAZARD CLASSIFICATIO	N: SPECIFIC TARGET ORGAN TOXICITY, REPEATE CARCINOGENICTY – CATEGORY 1A* SERIOUS SKIN CORROSION/IRRITATION – CAT EYE DAMAGE/EYE IRRITATION – CATEGORY 3 SPECIFIC TARGET ORGAN TOXICITY, SINGLE E	TEGORY 2
SIGNAL WORD:	DANGER	
HAZARD STATEMENTS:	MAY CAUSE DAMAGE TO LUNGS THROUGH F INHALATION MAY CAUSE CANCER [SILICOSIS]* CAUSES MILD SKIN IRRITATION CAUSES EYE IRRITATION	PROLONGED/REPEATED EXPOSURE THROUGH
PICTOGRAM:		
PRECAUTIONARY STATE	MENTS	
PREVENTION:	DO NOT EAT, DRINK OR SMOKE WHEN USING USE ONLY OUTDOORS OR IN A WELL-VENTIL/ PERSONAL PROTECTIVE EQUIPMENT AS REQ THOROUGHLY AFTER HANDLING.	ATED AREA. USE
RESPONSE:	EYE IRRITATION: REMOVE CONTACT LENSE SEEK MEDICAL ATTENTION	
	SKIN IRRITATION: WASH WITH SOAP AND SEEK MEDICAL ATTENT BREATHING: IF DIFFICULTY BREATHIN	
	SEEK IMMEDIATE MEDICAL ATT	

\*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.

ALSEY refractories co.

3 COMPOSITION/INFORMATION ON INGREDIENTS			
CHEMICAL NAME	CAS-NO	WEIGHT %	
CLAY	1332-58-7	50-75	
QUARTZ (SiO <sub>2</sub> )**	14808-60-7	15-25	
ALUMINOSIICATE	1302-93-8	10-20	
CRISTOBALITE (SiO <sub>2</sub> )**	14464-46-1	1-3	
SILICA, FUSED***	60676-86-0	1-3	
** 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.

\*\*\*SILICA, FUSED. ACGIH STATES THIS SUBSTANCE HAS BEEN IDENTIFIED BY SOURCES OTHER THAN IARC, NTP, OR OSHA AS A SUSPECTED OR CONFIRMED HUMAN CARCINOGEN.

4 FIRST AID MEAS	URES
INHALATION:	FIRST AID NOT GENERALLY REQUIRED. IF DIFFUCLTY 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 MEDIAL 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
	TROLONGED INTRACTION WAT CROSE LONG DISERSE, INCLUDING SILICOSIS

ROUTES OF ENTRY: EYES, SKIN, INHALATION

**5 FIRE FIGHTING MEASURES** 

NON-FLAMMABLE, NON-COMUBSTABLE, NON AUTO-IGNITING

NO SPECIAL INSTRUCTIONS OR CONDITIONS EXIST

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: PRODUCT IS NOT A SPILL NOR AN ENVIORNMENTAL HAZARD.

SMALL/LARGE SPILL: FOR BROKEN SHAPES/FRAGMENTS; SWEEP, SHOVEL OR PICK UP AND PLACE IN CONTAINER FOR DISPOAL.

METHODS FOR CLEAN UP: 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)
CLAY	1332-58-7	<u>10mg/m<sup>3</sup></u>
CLAY	1552-56-7	(%SiO <sub>2</sub> +2)
	14808-60-7	<u>10mg/m3</u>
QUARTZ (SiO <sub>2</sub> )**		(%SiO <sub>2</sub> +2)
ALUMINOSILICATE	1302-93-8	5 mg/m <sup>3</sup>
	14464 46 1	<u>10mg/m<sup>3</sup></u>
CRISTOBALITE (SiO <sub>2</sub> )**	14464-46-1	2(%SiO <sub>2</sub> +2)
	60676-86-0	80mg/m <sup>3</sup>
SILICA, FUSED***		%SiO <sub>2</sub>

ENGINEERING		GENERAL MECHANICAL VENTILATION IS USUALLY ADEQUATE.			
MEASURES: EYE/FA	CE		ASSES WITH SIDE SHIELD		
		GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN.			
SKIN AND BODY PRO	TECTION:	IMPERVIOUS GLOVES AND LONG-SLEEVED AND LONG-LEGGED CLOTHING SHOULD BE WORN TO			
		PREVENT SKIN CONTAG		BE WORN TO PREVENT FOOT INJURY FROM	
RESPIRATORY PROTI	ECTION:		SERVICE. A RESPIRATORY P	RKING AROUND MATERIAL AND WHEN REMOVING ROTECTION PROGRAM SHOULD BE IMPLEMENTED	
		AVOID CONTACT WITH SKIN, EYES AND CLOTHING. AFTER HANDLING THIS PRODUCT, WASH HANDS BEFORE EATING OR DRINKING.			
APPEARANCE:		BROWN/VARIOUS SIZES	5 AUTO IGNITION:	PRODUCT IS NOT SELF-IGNITING	
PHYSICAL STATE:	SOLID		ODOR:	NONE	
PH:	NOT APP	PLICABLE	WATER SOLUBILITY:	INSOLUBLE	
FLASH POINT:	NOT API	PLICABLE	EXPLOSION LIMITS:	NOT AN EXPLOSION HAZARD	
BOILING POINT:	NOT API	PLICABLE	MELTING POINT:	>2900°F	
SPECIFIC GRAVITY: VARIOUS BULK DENSITY (G/CC):2.18					
			BULK DENSITY (G/CC	):2.18	
<b>10 STABILITY AND</b>	REACTIVIT	Ϋ́			
	REACTIVIT	Ϋ́		):2.18 NS OF USE, STORAGE, AND TRANSPORTATION.	
<b>10 STABILITY AND</b>	REACTIVIT ATIBLE	Y PRODUCT IS STABLE UI		NS OF USE, STORAGE, AND TRANSPORTATION.	
10 STABILITY AND STABILITY: INCOMP.	REACTIVIT ATIBLE	PRODUCT IS STABLE UI PRODUCT CAN REACT AVOID DUST FORMATI CONTAIN MORE OR LE DUST FROM DEMOLITI	NDER NORMAL CONDITION WITH CONCENTRATED ACI ON. REFRACTORIES CONTA SS CRYSTALLINE SILICA. CA	NS OF USE, STORAGE, AND TRANSPORTATION.	
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ECO TOXICOLOGICAL/CHEMICAL FATE INFORMATION: NOT AVAILABLE.

#### **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