



August 22, 2006

RE: MSDS – Alumina Ceramic

To Whom It May Concern:

Regarding your recent request for a Material Safety Data Sheet (MSDS), this is to inform you that an MSDS is not required for the CerCo LLC / Diamonite Plant product specified in your request. CerCo has determined that the product as it is currently manufactured is, by definition, an article and is not hazardous under conditions of normal use. As defined under the OSHA Hazard Communications Standard, “article” means a manufactured item (I) which is formed to a specific shape or design during manufacture; (II) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (III) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts, of hazardous chemical (as determined under paragraph (d) of this section) and does not pose a physical hazard or health risk to employees.

Based on CerCo’s interpretation that the product in question is an “article” and does not involve any exposure to chemicals under normal use, no MSDS is required. If, at any time, CerCo determines or becomes aware that the product does release or otherwise result in exposure to a hazardous chemical under normal use, then those customers using the product will be notified and sent an appropriate MSDS. Also, at that time, the product label would be modified in order to reflect such a change.

Please feel free to contact me if you have any questions regarding the classification of Specialty Ceramics products or this letter.

Sincerely,

John A. Martin
E, H, & S Coordinator

MATERIAL SAFETY DATA SHEET

12-Nov-1992
ISSUE DATE:

To the Purchaser: This MSDS contains important environmental, safety and health information for your employees who will be using this product. Please be sure this information is given to them. If you resell this product, a copy of the MSDS should be given to the buyer.

MANUFACTURER'S NAME Arco Corporation, Refractories Division	PHONE NO: 216-389-1338
ADDRESS (Number, Street, City, State, & Zip Code) 230 Railroad Street, East Liverpool OH 43920	

SECTION I

TRADE NAME ENDURA ceramic tile	Hazard Class/ID Number N/A
CHEMICAL & COMMON NAME(S) Alumina ceramic brick, block, or tiles	FORMULA AL₂O₃

SECTION II

OSHA POTENTIAL HAZARDOUS INGREDIENT(S)	%	EXPOSURE LIMITS		
		ACGIH-TLV	OSHA PEL	Other
COMPONENT	CAS#	(OTHER)		
THIS PRODUCT MEETS THE DEFINITION OF AN				
ARTICLE AND ACCORDINGLY IS EXEMPT FROM THE				
REQUIREMENTS OF OSHA HAZARD COMMUNICATION STANDARD,				
29 CFR 1910.1200. UNDER THE CIRCUMSTANCE THAT THE				
PIECE WOULD BE CUT, GROUND OR CRUSHED DUST MAY BE				
PRODUCED.				
ADDITIONAL INFORMATION				
N/A				

SECTION III PHYSICAL DATA

BOILING POINT (°F)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	3.43-3.60
VAPOR PRESSURE (mm Hg)	N/A	VOLATILES BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (BUTYL ACETATE=1)	N/A
SOLUBILITY IN WATER	0.0	MELTING POINT (°F)	73000 °F
APPEARANCE & ODOR White, None			

SECTION IV FIRE & EXPLOSION HAZARD DATA

FLASH POINT (Method Used)	N/A	FLAMMABLE LIMITS	LEL N/A	UEL N/A
EXTINGUISHING MEDIA	N/A			
SPECIAL FIRE FIGHTING PROCEDURES	N/A			
UNUSUAL FIRE & EXPLOSION HAZARDS (See Reactivity Section for other physical hazards)				
N/A				

NA = NOT APPLICABLE NF = NOT FOUND

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to Avoid) None Known			
HAZARDOUS DECOMPOSITION PRODUCTS None Expected			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY
LISTED AS A CARCINOGEN? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, explain:
SYMPTOMS AND EFFECTS OF OVEREXPOSURE N/A
EMERGENCY AND FIRST AID PROCEDURES N/A

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED N/A
WASTE DISPOSAL METHOD Re-use if land fill, following local, state and federal regulations

SECTION VIII RECOMMENDED CONTROL MEASURES

RESPIRATORY PROTECTION	N/A	
VENTILATION	LOCAL EXHAUST	N/A
	MECHANICAL (General)	N/A
PROTECTIVE GLOVES	N/A	SPECIAL
		N/A
OTHER PROTECTIVE EQUIPMENT		Eye Protection
		N/A
SPECIAL PROTECTIVE MEASURES FOR REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT	N/A	

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING (Including appropriate hygienic practices) Wear gloves to prevent skin abrasion/irritation. Avoid creating dust. Use dust-type mask if dust is created.
Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this information, but FERRO EXTENOS NO WARRANTIES, MAKES NO REPRESENTATIONS AND ASSUMES NO RESPONSIBILITY AS TO ACCURACY OR SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE OF ITS USE.

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