MATERIAL SAFETY DATA SHEET



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This data sheet is based on OSHA FORM 20 but modified to more adequately suit refractory products. All data are subject to reasonable variation. This information is supplied in good faith by Harbison-Walker and is applicable to the product as shipped. Your application of the product may change its characteristics. THE DATA PROVIDED HEREIN ARE BELIEVED CORRECT OR ARE OBTAINED FROM SOURCES BELIEVED TO BE GENERALLY RELIABLE. HARBISON-WALKER SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE DIRECTLY OR INDIRECTLY ARISING FROM THE USE OF THIS PRODUCT, AND HARBISON-WALKER ASSUMES NO OBLIGATION OR LIABILITY FOR RELIANCE ON THE INFORMATION CONTAINED IN THIS DATA SHEET. This data is not part of any contract or condition of sale. It is solely supplied as an accommodation to the buyer.

	SECTION 1 - PRODUCT IDENTIFICATION
Product Tradename:	Type of Refractory:*
CALAMO 50	Calcined Fireclay
*For chrome containing refractories, indicate Contains chrome ore consisting predominal Contains chromium III oxide	approximate percentage, and check applicable block. and the mineral chromite (MgFe).0.(AlFeCr)2O3

SECTION II - HAZARDOUS INGREDIENTS						
SEE CHECKED BLOCKS INGREDIENT	GEN, CHEM. FORMULA	C.A.S. NUMBER	PERCENTAGE RANGE	OSHA P.E.L.	ACGIH TLV®	NIOSH CRITERIA
				10 mg/m ³		
□ Quartz	SiO ₂	001317799		% Respirable Quartz +2	SAME	75-120
🖄 Cristobalite	SiO ₂	14464-46-1	18 - 22%	2 Quartz Value	SAME	75-120
☐ Tridymite	SiO ₂	15468-32-3		½ Quartz Value	SAME	75-120
☐ Fused Silica	siO ₂	007631869		NONE	Use Quartz TLV	75-120
□ Coal Tar Products	N/A	MX8001589		0.2 mg/m ³	SAME	78-107
☐ Petroleum Pitch	N/A	MX8052424		NONE	5.0 mg/m ³	78-106
☐ Phosphoric Acid	H ₃ PO ₄	007664382		1.0 mg/m ³ (mist)	SAME	NONE
□ lime	C0O	001305788		5.0 mg/m ³	2.0 mg/m ³	NONE
□ Sodium Silicate	03-Si .2Na	006834920		NONE	NONE	NONE
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	SECTION III - PHYSICAL DATA	
Appearance and Odor: Buff to gray c	olor; no odor.	
Specific Gravity: 1.60	р н :ND	•
Solubility in Water: Insoluble. Soluble Constituents: Other:		
	SECTION IV - FIRE AND EXPLOSION DATA	

NOTES:

	SECTION V - HEALTH	HAZARD DATA"		
SEE CHECKED BLOCKS				E REQUIRED
INGREDIENT	EFFECTS OF C	OVEREXPOSURE	PROLONGED	SHORT TER
Free Crystalline Silica	Delayed lung fibrosis - silicosis	· V		
	Skin, lung, mucous membrane carcinogen			
Coal Tar Products	Skin irritation; photosensitization			V
Petroleum Pitch	(Same as Coal Tar Products)			
Lime	Irritant to skin, eyes, mucous membranes, et		<u> </u>	
Phosphoric Acid	Primary Irritant - skin, eyes, etc.	·	V	
Sodium Silicate	Irritant to skin, eyes, mucous membranes, et	с.		$\sqrt{}$
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MERGENCY OR FIRST A	D PROCEDURES:	As of works		
	m skin or flush from eyes using copious amoun		for matralayer mitch	
☐ Coal Tar Products:	Remove from skin by washing with soap and	water, DO NOT use solvents, 30	ame for perroleum pirch.	
☐ Other:				
	SECTION VI - REA			
TABILITY: 💢 STABL		COMMENTS:		
ncompatability (materia				•
łazardous decomposition łazardous Polymerizatio	n:			
142444003 1 019 11411411				
	SECTION VII - SPILL A may be landfilled. However, since your applica	ND LEAK PROCEDURES	its chemical characteristics,	and since
Most refractory products disposal procedures may disposal information.	y vary with locale and are subject to change, y	ou should consult the governme	ntal authority having jurisc	liction for
COMMENTS:				
COMMENTS.				
	SECTION VIII - SPECIAL PR	OTECTION INFORMATION		
RESPIRATORY PROTECTI	ON (CHECK TYPE): M Approved Dust	Other (Specify):	ess of allowable limits	
VENTILATION: Local exh	naust ventilation should be provided if routine			6.
PROTECTIVE GLOVES (CEYE PROTECTION: Appr	HECK TYPE): Acid Resistant Impoved safety glasses, goggles or faceshields sho	permeable Abrasion Resuld be used when handling refu	istant 🔲 Other (Speci ractory products.	, y
FOOT PROTECTION (CH PROTECTIVE CLOTHING		mpermeable		
		and the second s		
	SECTION IX - SPEC	CIAL PRECAUTIONS		
☐ If block is checked,	product contains coal tar products. Workers she	ould not be exposed to furnace	"burn-in" volatiles	
☐ Other (Specify):				