

MATERIAL SAFETY DATA SHEET

DUQUESNE REFRACTORIES

Product Name SUPER PATCH 45			
SECTION III - PHYSICAL DATA		PAGE 2 OF 3	
Physical State	Gas	Liquid	Solid <u>X</u>
Vapour Pressure (mm Hg)	N/A	Odour Threshold (ppm)	N/A
Vapour Density (air=1)	N/A	Specific Gravity	Approx 2.5
pH	N/A	Evaporation Rate	N/A
Boiling Pt (°C)	N/A	Freezing Pt (°C)	N/A
% Volatile (by volume)	N/A	Solubility in Water (@ 20°C)	N/A
Coefficient of Oil/Water Distribution		N/A	
Odour/Appearance Tan or off white paste, slight odour of salt			
SECTION IV - FIRE AND EXPLOSION DATA			
Flammability? if yes state conditions		Yes	No <u>X</u>
Flashpoint (°C) & Method		N/A	
Upper Explosion Limit (% by volume)	N/A	Special Procedures	None
Lower Explosion Limit (% by volume)	N/A	Auto Ignition Temp (°C)	N/A
Explosive Power	N/A	Means of Extinction	None
Hazardous Combustion Products	N/A	Rate of Burning	N/A
Sensitivity to Impact	None	Sensitivity to Static Discharge	None
SECTION V - REACTIVITY DATA			
Chemical Stability? If no, state conditions		Yes <u>X</u>	No
Incompatibility? Yes <u>X</u> No ___ (Specify)		Sodium silicate has a violent reaction with F ₂	
Reactivity and under what conditions		Surface of product stiffens when exposed to air	
Hazardous Decomposition Products		May emit toxic fumes of NO _x when heated to decomposition	
SECTION VI - TOXICOLOGICAL PROPERTIES			
Route of Entry	Inhalation Acute ___	Eye Contact <u>X</u>	Inhalation Chronic <u>X</u>
	Skin Contact <u>X</u>	Ingestion <u>X</u>	Skin Absorption
Effects of Acute Exposure	Sodium silicate may cause severe eye, skin and mucous membrane irritation and gastrointestinal upset if ingested		
Effects of Chronic Exposure	Dust from dried product may cause eye and throat irritation and long term exposure could lead to lung changes and silicosis		
LD ₅₀ of Product (Species & Route)	Not Established		
LC ₅₀ of Product (Species)	Not Established		

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Exposure Limits	Not established
Irritancy	Possible on contact
Sensitization	Possible on contact
Synergistic Materials	None Known
Carcinogenicity <u> X </u>	Reproductive Effects <u> X </u>
Teratogenicity	Mutagenicity
SECTION VII - PREVENTIVE MEASURES	
Gloves	Nylon or rubber to prevent skin contact
Eye	Safety glasses or goggles
Footwear	As required
Clothing	As required to prevent skin contact
Respiratory	NIOSH approved dust respirator to prevent exposure to silica dust
Other	Barrier cream if skin is unusually sensitive
Engineering Controls	Ventilation is required if dust is generated
Leak & Spill Procedure	Gather into an appropriate container
Waste Disposal	Dispose at any authorized landfill site according to local regulations
Handling Procedures & Equipment	Handle gently to minimize exposure from spillage, prevent drying before use which will lead to dust generation
Shipping & Storage Requirements	Maintain containers intact to maintain physical stability
SECTION VIII - FIRST AID MEASURES	
General	Avoid exposure to skin and eyes, do not breath dust
Skin	Wash thoroughly with water, if irritation persists, consult a physician
Eye	Flush with plenty of water, if irritation persists consult a physician
Inhalation	Move to fresh air, if difficulty persists consult a physician
Ingestion	Drink plenty of water, if difficulty persists consult a physician
SECTION IX - PREPARATION OF MSDS	
Sources Used	Dangerous Properties of Industrial Materials by N.I. Sax
Prepared By: Anthony Niemann	DEC 2006 REVISION 0
	Phone: (205)-424-3980
430170	