

Material Safety Data Sheet		HMIS HAZARD RATING		Polysulfide Class B, Part A only			
May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200 Standard must be consulted for specific requirements		Health	1	FED-STD-313 Latest Revision			
		Flammability	1				
		Reactivity	0				
		PPE	H				
OMB registration Number None		Type of Data Sheet New Revised <b>X</b>		<b>work lives</b>			
SECTION I General Information		Number of revised section:		<b>Supersedes 05-01-2007</b>			
Commercial ID (as on label and list) <b>CS-3204 Class B (Part A)</b>		Government contract or order number		N / A			
Manufactures Name <b>Flamemaster Corporation</b>		National Stock Number /CAN LSN /SIN		N / A			
Manufactures Address (No Street, City, State and zip) <b>Chem seal Division 13576 Desmond Street Pacoima, CA 91331-2315</b>		Part number, product and or trade name <b>CS-3204 Class B (Part A)</b>					
		Hazardous items	Yes	No	<b>X</b>		
Emergency Telephone Number <b>(800) 424-9300 CHEM TREC</b>		Information telephone number <b>(818) 890-1401</b>		Date prepared <b>February 01 2009</b>			
Mfr. CAGE code <b>14439</b>		Name of Preparer <b>Herbert Moore</b>		Signature of preparer <b>On File</b>			
NRC License number <b>N / A</b>		EPA Registration Number <b>N / A</b>		Specification Number <b>AMS S-8802</b>			
Spec. Type <b>II</b>		Spec. Grade. <b>B</b>		Spec. Class <b>All work lives</b>			
SECTION II - Hazardous Ingredients SARA III Information*							
Hazardous Components (Specific chemical identity: Common Name (s))		Other limits	By % weight	OSHA PEL	ACGHI TLV	NIOSH #	CAS #
Liquid polysulfide polymer (none CFR 1910.1200)			< 70%	N / E	N / E	None	68611-50-7
Toluene			< 5%	100 ppm	50 ppm	None	00108-88-3
All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST							
* Indicates toxic chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372							
SECTION III Physical /Chemical Characteristics							
Boiling Point <b>N / A</b>		Specific Gravity (H <sup>2</sup> O = 1) <b>1.52</b>		Auto ignition Temperature <b>N / A</b>		Decomposition Temperature <b>N / A</b>	
Vapor Pressure (mm hg) <b>NIL</b>		PH <b>8.5</b>		% Volatile by Volume <b>3.0</b>		Magnetism (milligauss) <b>N / A</b>	
Vapor Density Air = 1 <b>NIL</b>		Evaporation rate (Butyl Acetate = 1) <b>NIL</b>		Viscosity <b>12000 Poises</b>		Corrosion Rate: <b>N / A</b>	
Solubility in Water <b>Negligible</b>		Melting Point <b>Liquid at room temperature</b>		<b>Blank</b>		Temp <b>Material Reference</b>	
Appearance and Odor: <b>White Paste / Polysulfide odor</b>						Volatile Organic Compound VOC <b>13 grams / liter</b>	
SECTION - IV Fire and Explosion Hazard Data							
Flash Point (method used) <b>&gt; 93° C ----- &gt; 200° F TCC</b>			Flammable Limits <b>N / A</b>		LEL <b>N / A</b>	UEL <b>N / A</b>	
Extinguishing Methods: <b>Dry chemical, CO<sub>2</sub>, Foam, Water</b>							
Special Fire Fighting Procedures <b>In confined areas wear self contained breathing apparatus, cool exposed containers with fog nozzles</b>							
Unusual Fire and Explosion Hazards <b>Vapors are heavier than air and will collect at low points see (Section V)</b>							
SECTION V - Reactivity Data							
Stable <b>X</b>	Unstable	Conditions to avoid <b>Open Flame</b>			Neutralizing Agents <b>N / A</b>		
Incompatibility (materials to avoid) <b>Strong oxidizing agents</b>			Hazardous Decomposition products <b>H<sub>2</sub>S, CO, CO<sub>2</sub>, SO<sub>2</sub>, Smoke</b>				
Hazardous Polymerization May Occur		Will not Occur <b>X</b>		Conditions to avoid <b>N / A</b>			

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Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910. 1200 Standard must be consulted for specific requirements		HMIS HAZARD RATING		CS-3204 Class B (Part B) pg - 1			
		Health	1	FED-STD-313 Latest Revision			
		Flammability	1				
		Reactivity	1				
		PPE	G				
OMB registration None		Type of Data Sheet New Revised <input checked="" type="checkbox"/>		spelling Supersedes 05-01-2007			
SECTION I General Information		Number of revised section:					
Commercial ID (as on label and list) <b>CS-3204 Class B (Part B)</b>		Government contract or order number		N / A			
Manufactures Name <b>Flamemaster Corporation</b>		National Stock Number /CAN LSN /SIN		N / A			
Manufactures Address (No Street, City, State and zip) <b>Chem seal Division 13576 Desmond Street Pacoima, CA 91331-2315</b>		Part number, product and or trade name		<b>CS-3204 Class B (Part B)</b>			
		Hazardous items	Yes	No <input checked="" type="checkbox"/>			
Emergency Telephone Number <b>(800) 424-9300 CHEM TREC</b>		Information telephone number <b>(818) 890-1401</b>		Date prepared <b>February 01 2009</b>			
Mfgr. CAGE code <b>14439</b>		Name of Preparer <b>Herbert Moore</b>		Signature of preparer <b>On File</b>			
NRC License number <b>N / A</b>		EPA Registration Number <b>N / A</b>		Specification Number <b>AMS-S-8802</b>			
Spec. Type <b>N / A</b>		Spec. Grade. <b>N / A</b>		Spec. Class <b>N / A</b>			
SECTION II - Hazardous Ingredients SARA III Information*							
Hazardous Components (Specific chemical identity: Common Name (s))		Other limits	By % weight	OSHA PEL	ACGHI TLV	NIOSH #	CAS #
<b>Manganese Dioxide</b>		<b>N / E</b>	<b>&lt; 65%</b>	<b>5 ppm</b>	<b>5mg /m<sup>3</sup></b>	<b>0P0350000</b>	<b>1313-13-9</b>
Manganese Dioxide is in a wetted out dispersion exposure limits based on dust that is not present in this composition. All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Para. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST							
* Indicates toxic chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372							
SECTION III Physical /Chemical Characteristics							
Boiling Point <b>N / A</b>		Specific Gravity (H <sub>2</sub> O = 1) <b>2.0</b>		Auto ignition Temperature <b>Not flammable</b>		Decomposition Temperature <b>Unknown</b>	
Vapor Pressure (mm hg) <b>N / A</b>		PH <b>9</b>		% Volatile by Volume <b>2.0</b>		Magnetism (milligauss) <b>N / A</b>	
Vapor Density Air = 1 <b>N / A</b>		Evaporation rate (Butyl Acetate = 1) <b>Non Volatile</b>		Viscosity <b>1000 Poises</b>		Corrosion Rate: <b>N / A</b>	
Solubility in Water <b>Negligible</b>		Melting Point <b>Liquid at room temperature</b>		Blank		Temp Material Reference	
Appearance and Odor: <b>Black paste negligible oily odor</b>						Volatile Organic Compound VOC <b>Non Volatile</b>	
SECTION - IV Fire and Explosion Hazard Data							
Flash Point (method used) <b>&gt; 93° C ----- &gt; 200° F TCC</b>			Flammable Limits <b>N / A</b>		LEL <b>N / A</b>	UEL <b>N / A</b>	
Extinguishing Methods: <b>Dry chemical, CO<sub>2</sub>, Foam, Water</b>							
Special Fire Fighting Procedures <b>In confined areas wear self contained breathing apparatus, cool exposed containers with fog nozzles</b>							
Unusual Fire and Explosion Hazards <b>Explosion hazard if heated with oxidizable materials</b>							
SECTION V - Reactivity Data							
Stable <b>X</b>	Unstable	Conditions to avoid <b>Easily oxidizable materials</b>		Neutralizing Agents <b>N / A</b>			
Incompatibility (materials to avoid) <b>Easily oxidizable materials</b>			Hazardous Decomposition products <b>Oxides of nitrogen, Carbon, manganese compounds</b>				
Hazardous Polymerization May Occur		Will not Occur <b>X</b>		Conditions to avoid <b>None</b>			

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FED-STD-313 Latest Rev		Material: <b>CS-3204 B Part B Manganese</b>		Date <b>02-01-2009</b>	Page 2 <b>CS-3204 Class B (Part B) pg - 2</b>	
<b>SECTION VI - Health Hazard Data</b>						
Route (s) of entry		Inhalation? <b>no</b>		Skin? <b>No</b>		Ingestion? <b>Yes</b>
Health Hazards (Acute and Chronic) <b>Impairment of central nervous system</b>						
Carcinogenicity:			NTP? <b>No</b>		IARC Monographs? <b>No</b>	OSHA Regulated? <b>No</b>
Medical conditions generally aggravated by exposure: <b>None known</b>						
Signs and symptoms of exposure: <b>Sluggishness, Sleeplessness, and / or Weakness in legs</b>						
Emergency and first aid Procedures: Eyes: Flush with large amounts of water consult physician. Skin: wash with soap and water. Ingestion: get immediate medical attention.						
<b>SECTION VII - - Precautions for Safe Handling and Use</b>						
Steps to be taken in the event the material is released or spilled: Dike and cover with non-oxidizable absorbent. Scoop up and transfer to container for reaction with base. Clean up remainder with sand or non-oxidizing sweeping compound. Wash area with soap and water. Wear appropriate clothing and protective equipment. (section VIII)						
Waste disposal method: <b>React with curing agent and dispose of as solid waste per Federal, State and local regulations</b>						
Precautions to be taken handling or storing: <b>Keep container tightly closed, store in a dry location away from flammables (see Section VIII) wash hands thoroughly after handling</b>						
Other precautions: <b>Wash hands thoroughly after handling this product prior to eating , drinking or smoking</b>						
<b>SECTION VIII - Control Measures</b>						
Respiratory protection (specify type) <b>When mechanically abrading the cured material use an organic vapor cartridge or air supplied respirator.</b>						
Ventilation:		Local exhaust <b>Air</b>	Special: <b>N / A</b>		Mechanical (general) <b>Fan</b>	Other <b>N / A</b>
Protective gloves Type: <b>Chemical resistant gloves</b>				Eye protection Type: <b>Chemical goggles / face shield</b>		
Other protective clothing or Equipment <b>Appropriate clothing to avoid prolonged skin contact</b>						
Work /Hygienic practices: <b>Safety shower, eye wash station and washing facilities should be available</b>						
<b>SECTION IX - Transportation</b>						
Applicable regulations:						
49CFR <b>X</b>	IMO <b>X</b>	IATA <b>X</b>	Military Air (AFR 71-4)	IMDG	Marine Pollutant <b>No</b>	UN number <b>N / A</b>
Shipping name: <b>Not regulated</b>			ID Number <b>N / A</b>		Reportable Quantity <b>N / A</b>	
Unit container <b>N/A</b>			DOT Spec. container <b>N / A</b>		Net explosive weight: <b>N / A</b>	
Hazard class: <b>N / A</b>				Labels: <b>Not required</b>		
DOT Exempt /DOD CCN <b>N / A</b>				Limited Quantity: <b>N / A</b>		
Aerosol propellant (s) <b>N / A</b>				U.S. Postal regulations: <b>124.122 Harmful mater</b>		
Disposal Information: <b>Incineration or land fill as is, or react with Part A dispose as solid waste</b>						
EPA hazardous waste number /Code: <b>N / A</b>			Hazardous waste characteristics: <b>Sludge</b>			
Disposal methods: <b>When disposing of this material, the material must be handled, packaged and transported according to Federal, State or local regulations</b>						

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FED-STD-313 Latest Rev	Material: <b>CS-3204 Class B (Part A)</b>	Date 02-01/2009	Page 2 <b>Polysulfide Class B part A only</b>
<b>SECTION VI - Health Hazard Data</b>			
Route (s) of entry	Inhalation? yes	Skin? yes	Ingestion? yes
Health Hazards (Acute and Chronic) Non established (possible skin irritation) not considered a primary skin irritant <b>INHALATION:</b> vapor will irritate nose throat and respiratory tract, high concentration may cause dizziness <b>INJECTION:</b> can cause irritation of the gastrointestinal tract			
Carcinogenicity:	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
Medical conditions generally aggravated by exposure: None known			
Signs and symptoms of exposure: Skin or eye irritation			
Emergency and first aid Procedures: <b>Eyes:</b> Flush with large amounts of water consult physician. <b>Skin:</b> wash with soap and water. <b>Ingestion:</b> If swallowed induce vomiting get immediate medical attention.			
<b>SECTION VII - - Precautions for Safe Handling and Use</b>			
Steps to be taken in the event the material is released or spilled: Scoop up and transfer to container for reaction with curing agent. Clean up remainder with sand or sweeping compound. Wash area with soap and water. Wear appropriate clothing and protective equipment. (section VIII)			
Waste disposal method: React with curing agent and dispose of as solid waste per Federal, State and local regulations			
Precautions to be taken handling or storing: Empty drums may contain explosive vapors Store below 120 degrees dry area away from acids, oxidizers, open flame or other possible ignition sources			
Other precautions: Wash hands thoroughly after handling this product prior to eating , drinking or smoking			
<b>SECTION VIII - Control Measures</b>			
Respiratory protection (specify type) When applying in any circumstances likely to produce airborne levels of solvent vapors in excess of the TLV or when mechanically abrading the cured material use an organic vapor cartridge or air supplied respirator.			
Ventilation:	Local exhaust Air	Special: N / A	Mechanical (general) Fan Other N / A
Protective gloves Type: Solvent resistant gloves		Eye protection Type: Safety Glasses	
Other protective clothing or Equipment Appropriate clothing to avoid prolonged skin contact			
Work /Hygienic practices: Safety shower, eye wash station and washing facilities should be available			
<b>SECTION IX - Transportation</b>			
Applicable regulations:			
49CFR X	IMO X	IATA X	Military Air (AFR 71-4) IMDG Marine Pollutant No UN number
Shipping name: Not regulated		ID Number N / A	Reportable Quantity N / A
Unit container N/A		DOT Spec. container N / A	Net explosive weight: N / A
Hazard class: N / A		Labels: Not required	
DOT Exempt /DOD CCN N / A		Limited Quantity: N / A	
Aerosol propellant (s) N / A		U.S. Postal regulations: 124.122 Harmful mater	
Disposal Information: Incineration or land fill as is, or react with Part B dispose as hazardous solid waste			
EPA hazardous waste number /Code: D-001 ignitable		Hazardous waste characteristics: Sludge	
Disposal methods: Incineration or land fill, The material must be handled, packaged and transported according to Federal, State or local regulations			

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