Material Safety Data Sheet		HMIS	HAZA	ARD RATING	; T		Polys	ulfide Part A only		
May be used to comply with		Health 2			!	FED-STD-313				
OSHA's Hazard Communication Standard		F	lamm	nability 3	;			Latest Revision		
29 CFR 1910. 1200 Standard must be			Rea	activity 0)			Latest Nevision		
consulted for specific requirements			PPE H	1						
OMB registration Number None			, ,,	pe of Data Sheet						
SECTION I General Information			⊢ Ne		ised		reformatted Supercedes 05/0	1/2004		
Commercial ID (as on label and list)			Number of revised section: Supercedes 05/01/2004 Government contract or order number							
CS-3201 Class B (Part A Black Tan)			٠,,	N/A						
Manufactures Name Flamemaster Corporation National Stock Number /CAN LSN /SIN N / A										
Manufactures Address (No Street, City, State and zip)										
11120 Sherman Wa				Part number, product and or trade name CS-3201 Class A (Part A Black Tan))						
Sun Valley CA 9135				Hazardous items Yes X No						
-			''-							
Emergency Telephone Number	Information tele	ephone number Date prepared					11-17-2004			
(800) 424-9300 CHEM TREC Mfgr. CAGE code	Name of Prepa	(818) 98 arer	2-165	-	Si	gnature of pre				
14439	Herbert M	oore				•	On File	On File		
NRC License number N / A	EPA Registrati	on Number N /	A		5	pecification N	umber AMSS-7124			
Spec. Type	Spec. Grade.			· · · · ·	Sı	pec. Class				
N/A		N /	<u> </u>				A			
SECTION II - Hazardous Ingredients SARA II Hazardous Components (Specific chemical identity:	Other limits		nia ht	OSHA PEL	ACI	GHITLV T	NIOSH#	CAS#		
Common Name (s)	Outer milita	5 Dy /6 W	ergist.	CONTACE						
** Liquid polysulfide polymer	55%		6	N/E		N/E	**	68611-50-7		
(none CFR 1910.1200) Toluene (Methyl Benzene)	2%		3	50 ppm) ppm	XS5250000	00108-88-3		
Tolderie (Metry Denzene)			<u></u>	99 PP		EE				
** Toxic Data Not Established										
					ļ					
	- - -									
				<u> </u>						
All remaining Constituents are non-hazardous per FI 95 (6) (7) Constituents are not listed in TSCA 12b Co	ED-STD-313 A	II Constituent	s are li	isted in TSCA in	nventor	y; complete	mixture is excluded F	Per TSCA Par. 710.4 (d)		
* Indicates toxic chemical (s) subject to the reporting	requirements	of section 31	3 of Tit	tle III and of 40	CFR 37	72				
SECTION III Physical /Chemical Characteris	tics									
Boiling Point Specific Gravi			Auto ignition Temperature				Decomposition Ter	Decomposition Temperature N / A		
231 ⁰ F	1.6		24161							
Vapor Pressure (mm hg) PH	8.5		% voia	Volatile by Volume Magnetism (milligauss) N / A						
· · · · · · · · · · · · · · · · · · ·	rate (Butyl Ace	etate = 1)	Viscosi	Scosity Corrosion Rate:						
3.1	2.0			550 Poises N / A Temp Material Referer						
Solubility in Water Melting Poin Negligible Liquid at	rature Blank					Temp Ma	aterial Neierence			
Appearance and Odor: Volatile Organic Compound VOC										
Black or Tan H		/ Polysulfic	le odd	or			32 g	rams / liter		
SECTION - IV Fire and Explosion Hazard Da	ta		Flamn	nable Limits			LEL	ÜEL		
Flash Point (method used) 32° C 90° F TCC	Flammable Limits N / A					1.3	7.1			
Extinguishing Methods: Dry chemical, CO ₂ , Foam, Water										
Special Fire Fighting Procedures In confined areas wear self contained breathing apparatus, cool exposed containers with fog nozzles										
Unusual Fire and Explosion Hazards										
Vapors are heavier than air and will collect at low points see (Section V)										
SECTION V - Reactivity Data Stable Unstable Conditions to avoid				Neutra	alizing A	gents				
X Open	Flame High	Heat				-	N/A			
Incompatibility (materials to avoid)				sition products SO _{2,} Smoke						
Strong oxidizing agents Hazardous Polymerization		Conditions to a		JOZ, CHIORC			· · · · · · · · · · · · · · · · · · ·			
May Occur Will not Occur X						N/A				

FED-STD-313 Latest F	₹ev	Material:	s A (Dawt A)		Date			Page 2	Ph. 1 107 1				
CS-3201 Class A (Part A) 11-17-2004 Polysulfide part A only SECTION VI - Health Hazard Data													
Route (s) of entry Inhalation? Skin? Ingestion?													
yes					yes		,		yes				
Health Hazards (Acu	ite and	Chronic) Non est	ablished (pos	sible skin in	ritation) not consi	dered a pri	mary ski	n irritant m	nay lead to muscular				
weakness and dizziness, long-term exposure may lead to dermatitis, liver and kidney damage.													
INJESTION: can	INHALATION: vapor will irritate nose throat and respiratory tract, high concentration may cause dizziness												
Carcinogsnicity:	INJESTION: can cause irritation of the gastrointestinal tract Carcinogsnicity: NTP? IARC Monographs? OSHA Regulated?												
				1	NO		NO		NO NO				
Medical conditions gen	Medical conditions generally aggravated by exposure: Pre existing skin disorders, respiratory tract, liver and kidney damage.												
Pre existing skin disorders, respiratory tract, liver and kidney damage Signs and symptoms of exposure:													
Skin or eye imitation head ache and nausea with impaired coordination													
Emergency and first aid	Proced	ures: Eyes: Flus	h with large a	mounts of v	vater consult phys	sician. Ski	n: wash v	vith soap a	and water.				
Ingestion: If swal	lowed	get immediate	medical atten	tion.	, ,								
SECTION VII P	recaut	ions for Safe Ha	ndling and Us	e									
Steps to be taken in	n the e	vent the material	s released or s	pilled:									
sweeping compo	nug V	Illott. Scoop up Vash area with	and transfer	to containe	r for reaction with	curing age	ent. Clea	an up rem	ainder with sand or				
Waste disposal method	: :	VASIT GICA WILLI	Soap and wat	or vvear ap	propriate clothing	and prote	ctive equ	iipment. (s	ection VIII)				
R	eact w	ith curing agen	and dispose	of as solid	hazardous waste	per Feder	al, State	and local r	regulations				
Precautions to be taken	i handlin	g or storing;											
Empty drums ma	y cont	ain explosive va	pors Store be	elow 120 de	grees dry area a	way from a	cids, oxid	dizers, ope	en flame or other possible				
ignition sources (Other precautions:	Journ	containers wh	en transferrin	g									
outer productions.		Wash hands ti	noroughly afte	r handling t	his product prior	to eating	drinkina	or smokin	n				
SECTION VIII - Co	ntrol I	Measures			no product prior	to cutting ,	dilliking	OF SHIOKIII	9				
Respiratory protection (specify t	ype)	· · · · · · · · · · · · · · · · · · ·										
When applying in	any o	ircumstances li	cely to produc	e airborne l	evels of solvent v	apors in e	xcess of	the TLV o	r when mechanically				
abrading the cure	ed mat	erial use an org	anic vapor ca	rtridge or ai	r supplied respira	itor.							
ventration. Local	exhaust Ai	r Spec	nan: N/A	Me	echanical (general) Fan		J OI	ther	At / A				
Protective gloves			14774	E	ye protection Typ		1		N/A				
•	Solve	nt resistant alov	es	-	, - p. 0.00		Glasses	/ face shie	ble				
Other protective clothing	or Equi	pment											
Work /Hygionia practice			Appropriat	e clothing to	o avoid prolonged	skin conta	act						
Work /Hygienic practice Safety shower, ey		h station and w	achina faciliti	ae chauld b	a aunilahia								
calcif allower, cy	C WES	on station and w	asining lacing	ים טוטטוופ פי	e avallable								
SECTION IX - Tran	sport	ation							· · · · · · · · · · · · · · · · · · ·				
Applicable regulations:													
	0 X	IATA X	Military Air (AF	R 71-4)	IMDG	Marine Pollu	ıtant No	UN numl	per UN 1133				
Shipping name: ID Number													
Unit container	egulate	ea	DOTO	N/A				N/A					
Quart 24 fl	uid oz	can kit	DOT Spec. cor		ŀ	Net explosiv	e weight:	A1 1 1					
Hazard class:	uid UZ	. Call Kit	<u> </u>	<u> </u>	Labels:			N/A	\				
Flammable Liquid													
DOT Exempt /DOD CCN Limited Quantity:													
N / A Varies with quantity								,					
Aerosol propellant (s) U.S. Postal regulations:													
Diagnost Information		N/A_				12	4.122 Ha	armful mat	er				
Disposal Information:		Incineration	or land fill on i	n or road.	internation								
EPA hazardous waste	e numbe	er /Code:		s, or react v	with Part B dispos	se as naza	raous sol	id waste					
	1 ignit		110201000	HOSIC CHAIG	ACH300.	Sludg	ie		ĺ				
Disposal methods:				, <u></u>									
Incineration or lan	d fill, T	The material mu	st be handled	, packaged	and transported	according	to Federa	al, State o	r local regulations				

The information in this MSDS has been obtained from sources that we believe to be reliable. However since much of this information has been received from sources outside of the company, it is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal is beyond our control and may be beyond our knowledge.

	Material Safety Data Sheet			HMI	IS HAZ	ARD RA	TING	_ cs	-3202 Class B p	oart B page 1		
	May be used to comply with				Health 1			FED-STD-31				
	OSHA's Hazard Communicat	ion Standard			Flami	mability	1			Latest Revision		
	29 CFR 1910, 1200 Standard	l must be			Re	eactivity	1	1				
	consulted for specific require	ments				PPE	G					
ľ	OMB registration	None			1	ype of Data						
ľ	SECTION I General Informa	tion				iew Ro Number of re	evised X vised secti		reformatted Supercedes 06-1	3- 2004		
ľ	Commercial ID (as on label and list)							order number		<u> </u>		
Ļ		S-3202 (part B)				lational Otac	le blesseb en	JOAN LONGON	N/A			
ļ		naster Corpo	oration		^ ^	National Stock Number /CAN LSN /SIN N / A						
	Manufactures Address (No Street, C											
		em seal Division 20 Sherman Wa			P	Part number, product and or trade name CS-3202 (part B)						
		Valley CA 9135	,		<u> </u>	lazardous ite	me	Yes	No	x		
l	-	valley ex vice	_		"	iazai doda ite	^					
ľ	Emergency Telephone Number		Information	telephone num								
ŀ	(800) 424-9300 CHE Mfgr. CAGE code	MIREC	Name of P	(818) 9	982-16	50		10-01-2004				
	14439		Herbert					olgnalure or pr	nature of preparer On File			
ľ	NRC License number			ration Number						. 110		
ŀ	Sana Tura		Casa Card		<u>I / A</u>			Casa Class	N/A			
l	Spec. Type N / A		Spec. Grad		I/A			Spec. Class	N/A			
ŀ	SECTION II - Hazardous Ing	redients SARA II	Informati			•			18774			
l		'										
l	Hazardous Components (Specific ch	emical identity:	Other lin	nits By%w	eight /	OSHA PE	L	ACGHI TLV	NIOSH#	CAS#		
r	Common Name (s)											
F	** Lead Dioxide		 	65	5	0.05mg/	M ³ O	.05mg/ M ³	0G0700000	1309-60-0		
						0.comg/ W		.comg/ m	000100000	1003-00-0		
Ĺ	** Lead Oxide			6		0.05mg/	M ³ 0	.05mg/ M ³	0G1750000	1317-36-8		
Ļ												
	P											
ŀ	Lead Dioxide, Lead Oxide are in a wetted out dispersion exposure limits are based on dust that is not present in this composition.											
r	Lead Dioxide, Lead Oxide	are in a welled o	ut dispers	ion exposu	ALC HEID	to ale ba	Sea on t	uusi illai is i	ior biesent in this	Composition.		
	All remaining Constituents are no	n-hazardous per FE	D-STD-313	All Constitue	ents are l	listed in TS	CA inven	tory: complete	mixture is excluded F	er TSCA Para, 710.4		
	(d) 95 (6) (7) Constituents are no	t listed in TSCA 12b	CORR. LIS	T								
Ļ												
Ļ	* Indicates toxic chemical (s) sub			ts of section 3	313 of Ti	itle III and c	of 40 CFR	372				
Ļ	SECTION III Physical /Chem Boiling Point											
	Vehicle 340° C	Specific Gravity	y (H²U ≃ 1) 3.0		Auto ig	nition Tempi Not	erature flamma	hle	Decomposition Ten	nperature N / A		
Ļ	Vapor Pressure (mm hg)		PH		9/. \/ola	atile by Volum		DIG.	Magnetism (milliga			
	N / A		6.8		/6 VOIA	allie by volui	3.0			uss) N / A		
r	Vapor Density Air = 1	Evaporation r		cetate = 1)	Viscosi	ity			Corrosion Rate:			
L	N/A		NIL	,	<u> </u>		N/A			N/A		
Solubility in Water Melting Point							Disale	Temp Ma	terial Reference			
L	Negligible Appearance and Odor:	Liquid at	room tem	perature			Blank	Volatile Organic Co	mnound \/OC			
	Appearance and Odor.	Brow	n paste o	ilv odor						m/ Liter		
r	SECTION - IV Fire and Explo			<u>, +, </u>						712		
	Flash Point (method used)	> 200° F T			Flamm	nable Limits			LEL N/A	UEL		
L			N/A					N/A				
	Extinguishing Methods: Special Fire Fighting Procedures	Dry chemical,	CO_2 , For	am, Water								
	In confined areas wear self contained breathing apparatus with full face piece, cool exposed containers with fog nozzles											
Г	Unusual Fire and Explosion Hazards											
L	APATIONIA DE LA PERSONA	Fire hazard exis	ts if conta	ct with oxid	lizable	materials	s at high	temperatur	e occurs.			
	SECTION V - Reactivity Data					1	1. 1					
	Stable Unstable Condition	ons to avoid	High hea	ł			leutralizing	Agents	N/A			
-	Incompatibility (materials to avoid)		inga siou	Hazardous D	ecompos	sition product	ls		13 (7)			
	oxidizable i	naterials		Oxides of	f nitrog			d oxide and	organics			
	Hazardous Polymerization Will	not Occur X		Conditions to	avoid			N/A		-		
	TRICE COOLS I VALLE	IRUL CALADI A						N IN				

FED-STD-313 Latest Rev Material:			5,3202 Part P	3202 Part B Lead				Page 2 CS-3202 Class B part B page 2			
CS-3202 Part B Lead 10-01-2004 CS-3202 Class B part B page 2 SECTION VI - Health Hazard Data											
	Inhalation?	·	Skir	in?			Ingestio	n?			
	No No Yes										
Health Hazards (Acute	e and Chronic)		ı,	Acute: We	akness. Stupor						
		Cl			Anemia, Reprod		nage				
Carcinogsnicity:	-	N		IARC Mond	ographs'		OSHA Regulated? No				
No N											
None known Signs and symptoms of exposure: Headache, Muscle and joint pain, Neuromuscular dysfunction											
Emergency and first a	id Procedures	Hea	pache, Muscle	e and joint	pain, neuromus	scular dystu	anctiol	11			
Eyes: Flush with la	arge amounts o	f water o	onsult physici	ian. Skin:	wash with soap	and water	Inges	stion: Induce	vomiting get immediate		
medical attention.											
SECTION VII Pro	ecautions for S	terial is re	ing and Use	-d·							
Dike and cover wi	th non-oxidizat	le absor	pent. Scoop	up and trail	nsfer to contain	er for react	ion wit	th curing age	ent. Clean up remainder		
with sand or non-	oxidizable swe	eping co	mpound. Was	sh area wit	h soap and wat	ter. Wear a _l	ppropi	riate clothing	and protective		
equipment. (section Waste disposal method:											
Return to smelter	for reclamation	or react	with Base and	d dispose d	of as hazardous	solid wast	e per	Federal, Sta	ite and local regulations		
Precautions to be taken	handling or storing:										
Keep container tig Other precautions:	intly closed, sto	re in a d	ry location (se	e Section	viii) wash nanc	as thorough	ну апе	HANGHING	<u></u>		
_		inds thor	oughly after h	andling thi	s product prior	to eating,	drinkir	ng or smokir	ng		
SECTION VIII - Co											
Respiratory protection (s	specify type)	روم انلاما	v to produce a	airborne lev	els of solvent v	apors in ex	cess :	of the TLV o	or when mechanically		
abrading the cure	d material use	an organ	ic vapor cartri	dge or air s	supplied respire	itor.					
Ventilation: Local exhaust Special: Mechanical (general) Other: If soot is for						t is formed use NIOSH					
Protective gloves Type:			N/A	Eye protection Type:			approved r	espirator			
1 Totactive gloves	Rubbe				. р. окоолок тур		Safety	Glasses			
Other protective clothing	or Equipment		Appropriate o	clothing to	avoid prolonged	f skin conts	act -				
Work /Hygienic practices			Appropriate C	wouning to a	avoid prolonger	a anni conte	٠٠١	***	<u> </u>		
Safety shower, ey		and was	hing facilities	should be	available						
SECTION IX T	anostation			•							
SECTION IX - Tran Applicable regulations:	isportation										
49CFR X IM		itary Air (AFR 71-4) IMDG			ıtant	UN nun	nber				
Shipping name:		1	D Number	N/A		Reportable (Quantity	y N/	Δ		
Not regulated N / A N/ A N / A Unit container DOT Spec. container Net explosive weight:											
< 20 gms. in plastic container N/A N/A								<u> </u>			
Hazard class: N / A Labels: Not required											
DOT Exempt /DOD C			Limited Quantity: N / A								
Aerosol propellant (s)		U.S. Postal regulations:									
	N /	A					24.122	2 Harmful ma	ater		
Disposal Information:	Incineration or land fill as is, or react with Part A dispose as solid waste										
EPA hazardous waste			Hazardous w	raste charact	eristics:	Sludg					
Disposal methods:			_ L								
When disposing o	of this material,	the mate	rial must be h	nandled, pa	ickaged and tra	insported a	ccordi	ing to Federa	al, State or local		

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