

Revision Date:	05/12	Print Date:	08/30/12	
Version 2.0		MSDS Identification:	6750CS - Part B	Polymerization Initiator, Organic Peroxide

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	:	6750CS - Part B
Product Use Description	:	Polymerization Initiator, Organic Peroxide
Company	:	Protective Floorings and Linings A Division of Milamar Coatings, LLC 311 N.W. 122nd St, Suite 100 Oklahoma City, OK 73114
Telephone	:	405-755-8448
Emergency Telephone Number	:	ChemTel 800-255-3924 or 813-248-0585 (International)

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	58%
Methyl Ethyl Ketone Peroxide(s)	1338-23-4	32% - 34%
Hexylene Glycol	107-41-5	6%
Methyl Ethyl Ketone	78-93-3	1% - 2%
Hydrogen Peroxide	7722-84-1	0.70%
Water	7732-18-5	<0.7%

#### 3. HAZARDS INFORMATION

Emergency Overview

DANGER!. Organic Peroxide. Causes Eye Burns; may cause blindness. Causes Skin Irritation. May Cause Respiratory Tract Irritation. May Cause Allergic Skin Reaction. Clear Oily Liquid; Ketone Odor.

Potential Health Effects (See Section 11 for toxicological data.):

Skin contact and inhalation are expected to be the primary routes of exposure to this material. Based on its composition, it is anticipated to be moderately toxic if swallowed, slightly toxic if absorbed through skin, practically non-toxic if inhaled, severely irritating to skin and corrosive to eyes. Prolonged or repeated contact may cause an allergic skin reaction. Overexposure to vapor may lead to digestive disorders, narcosis and central nervous system (CNS) effects such as headache, dizziness, loss of coordination, loss of consciousness or convulsions. If swallowed, this material may cause CNS effects as noted above, irritation of the mouth, throat and stomach and, in severe cases, death.

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4. FIRST AID MEASURES	S			
Eye Contact		:	Immediately flush with plent	y of water for 15 minutes. Get medical attention
Skin Contact		:		vith plenty of water. Remove contaminated clothing and n. Wash clothing before reuse. Destroy contaminated
Ingestion		:		Give water to drink. Get medical attention immediately. AY MOUTH TO AN UNCONSCIOUS PERSON.
Inhalation		:	Move to fresh air. If breathin	ng is difficult, get medical attention.
5. FIRE-FIGHTING MEAS	SURES			
Flammable Pro	Flash Point Method Used Auto Ignition Tempe	: erature :	160 degrees F (71degrees C Seta CC NE	C) CC

6 1		
Flammability Limits LFL UFL	:	NE NE
Fire and Explosion Hazards	:	Contact with incompatible materials or exposure to temperatures exceeding the SADT may result in a self accelerating decomposition reaction with the release of flammable vapors which may autoignite.
Fire Fighting Instructions	:	Fight fire with large amounts of water from a safe distance. Use water spray to cool containers exposed to fire. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent) Fire fighting equipment should be thoroughly decontaminated after use. After a fire, wait until the material has cooled to room temperature before initiating clean up activities.
6. ACCIDENTAL RELEASE MEASURES	(See Sectio	on 15 for Regulatory Information)

In Case Of Spill Or Leak	:	Use inert, non-combustible absorbent material. Sweep or scoop up using non-sparking tools. Wet down and dispose of immediately. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and / or hazardous waste disposal and other requirements listed in pertinent environmental permits.
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7. HANDLING AND STORAGE

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Handling		:	(See Section (9) may result in a of flammable vapors which may Avoid contamination. Use only equipment. Keep container clo product residue. Wash thoroug	erials or exposure to temperatures exceeding SADT a self accelerating decomposition reaction with release y autoignite. Keep away from heat sparks and flame. with adequate ventilation. Use explosion proof used. Do not reuse container as it may retain hazardous ghly after handling. Do not get in eyes, on skin or on r or mist. Do not taste or swallow. Avoid prolonged or
Storage		:	content. Detached storage is p ventilated place. Store away fr	degrees C) to maintain stability and active oxyger preferred. Store out of direct sunlight in a cool well- rom combustibles and incompatible materials. Refer also ncy (NFPA) Code 432. Code for the Storage of 5.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures	:	Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.				
Eye / Face Protection	:	Where there is potential for eye conta have eye flushing equipment immedia	act, wear a face shield, chemical goggles, and ately available.			
Skin Protection	:	to prevent skin contact. Consult glow glove material for given application. A chemical resistant clothing such as a immediately if skin is contaminated. before reuse. Clean protective equip	protective clothing and chemical resistant gloves e manufacturer to determine appropriate type Wear chemical goggles, a face shield, and rubber apron when splashing may occur. Rinse Remove contaminated clothing promptly and wash ment before use. Provide a safety shower al occur. Wash skin thoroughly after handling.			
Respiratory Protection :		approved respiratory protection equip components. Full face piece equipm for face shield and / or chemical gogg with engineering controls, consult res type equipment for given application. NIOSH or the manufacturer. For eme be a potential for significant exposure	e airborne exposure is likely, use NIOSH oment appropriate to the material and / or its ent is recommended and, if used, replaces need gles. If exposures cannot be kept at a minimum pirator manufacturer to determine appropriate Observe respirator use limitations specified by ergency and other conditions where there may e, use an approved full face positive-pressure, positive-pressure airline with auxiliary sell otection programs must comply with			
Airborne Exposure Guidelines For Ingredients	:					
Hexylene Glycol	:	ACGIH STEL -	25ppm 121mg/m3			
Hydrogen Peroxide	:	ACGIH TWA - OSHA TWA PEL -	1 ppm 1.4 mg/m3 1 ppm 1.4 mg/m3			

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	Methyl Ethyl K	etone :	ACHIG Ceiling ACGIH TWA OSHA TWA PEL 200ppm 590 mg/m3	- -	300ppm 885 mg/m3 200ppm 590mg/m3 200ppm 590 mg/m3	
	Methyl Ethyl K	etone Peroxide :	ACGIH STEL	-	0.2 ppm 1.5 mg/m3	
*Only those con	nponents with e	exposure limits are p	inted in this section.			

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Clear Oily Liquid; Ketone Odor.
рН	:	NA
Specific Gravity	:	1.004 @ 25 degrees C
Vapor Pressure	:	NE
Vapor Density	:	NE
Melting Point	:	< 0 degrees C
Freezing Point	:	NE
Boiling Point	:	NE
Solubility In Water	:	Slight
Evaporating Rate	:	NE
Percent Volatile	:	98% VOC
SADT	:	169 degrees F (75 degrees C) (45 lb carton)
Active Oxygen Content	:	8.7% - 9.0%

This material is chemically unstable and should only be handled under specified conditions. See HANDLING AND STORAGE section of this MSDS for specific conditions.

SADT- Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction. This reaction will generate flammable vapors which may autoignite. The length of time to generate  $\epsilon$  decomposition reaction, after the SADT has been reached or exceeded, if dependent upon how much the SADT has been exceeded and the length of time needed for the reaction exotherm (heat spike from increasing decomposition rate) to initiate a rapid decomposition reaction. Typically, SADT is inversely proportional to package size. Larger packages will have a lower SADT due to similar ratio to heat transfer area to volume of product.

**10. STABILITY AND REACTIVITY** 

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	Stability					table and should only be handled under specific ND STORAGE section of this MSDS for specific
		decomposition rea decomposition rea the length of time r	ction. This reaction, after the needed for the inversely prop	action will gene SADT has been reaction exoth	rate flammable vapors which may a en reached or exceeded, id depende erm (heat spike from increasing dec	h the tested package size will undergo a self-accelerating utoignite. The length of time to generate a ent upon how much the SADT has been exceeded and composition rate) to initiate a rapid decomposition reaction. <i>re</i> a lower SADT due to similar ratio to heat transfer
	Incompatibility	With Other Mate	erials			lis, oxidizers, transition metal salts, promoters / nts may result in a violent decomposition reaction ection 16).
	Hazardous De	composition Pro	ducts		•	SADT can result in the release of hazardous are flammable and may autoignite.
	Hazardous Po	lymerization		:	Does not occur.	
11. TOXICO	LOGICAL INF	ORMATION				
	Toxicological I	nformation		:	Data on this material and / or it	s components are summarized below
		Methyl Ethyl K	etone Pero		phthalate) is moderately toxic to rabbits if absorbed through skir	s indicate that this material (40%-60% in dimethyl o rats if swallowed (LD50 484mg/kg), slightly toxic to n (LD50 4,000 mg/kg), practically non-toxic to rats if , corrosive to rabbit eyes, and moderately irritating to 8.0).
					skin reaction with this material subsequent patch testing did n	ion in a paint sprayer, patch testing produced an allergic as well as other components of the paint. However, ot produce allergic skin reactions in 34 healthy subjects. s reported to cause liver injury in one case report.
					weight, mild liver and kidney inj of this material in dimethyl phth and animal deaths (only at the and bone marrow changes con noted in animals at the high do shorter time produced similar e material in dimethyl phthalate v irradiated with UVB. This mate	f this material was reported to result in decreased body jury and death in rats. Following repeated applicatior halate to the skin of rats and mice, severe skin damage highest dose levels) were the primary effects. Spleen highered secondary to the severe skin damage were ses. Higher doses applied to rat and mouse skin for a ffects. Long-term repeated skin application of this vas reported to enhance skin tumor production in mice erial has produced genetic changes in standard tests However, no genetic changes occurred in a standarc
		2,2,4-Trimethy	I-1,3-Penta		5	s indicate that this material is no more than slightly toxic

Single exposure (acute) studies indicate that this material is no more than slightly toxic to rats if swallowed (LD50 >3,200 mg/kg), practically non-toxic to guinea pigs if absorbed through skin (LD50 >20 ml/kg) or rats if inhaled (6-hr LD50 >5.3 mg/l), and

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			slightly irritating to rabbit eyes an	nd to guinea pig skin.
			liver weights, which were probab metabolizing enzymes in these ti their feed for up to 103 days. Th	guinea pigs following repeated exposure. Increased by adaptive changes due to the induction of druc issues, were observed in rats or dogs fed up to 1% in his material is eliminated in the excreta of rats following o retention in the tissues or organs.
Hexyle	ne Glycol		mice and guinea pigs if swallowe rabbits if absorbed through skin	indicate that this material is slightly toxic to rats, rabbits, ed (LD50 2,800-4,700 mg/kg), practically non-toxic tc (LD50 12,300 mg/kg), severely irritating to rabbi o rabbit skin. No deaths occurred in rats exposed to
			human volunteers, while repeate 1% showed no irritant or sensitiz sensitization responses in individ Rats and rabbits exposed to 0.7 material in the diet at up to 150 n growth, behavior or fertility in rats	haterial in water showed only minimal irritation in ed application of consumer products containing up to ting effects in humans. Patch tests have shown duals working with cutting oils containing this material. m/l for 9 days showed no adverse effects. This ng daily for 4 months produced no adverse effects on s. Changes in the kidney were noted at 200 mg/day yed in tests using bacteria or animal cells.
Methyl	Ethyl Ketone	:	to rats if swallowed (LD50 2,700-	indicate that this material is no more than slightly toxic -5,600 mg/kg), practically non-toxic to rabbits if 000-13,000mg/kg) or rats if inhaled (4-hr LC50 11,000 o rabbit eyes and skin.
			produced no skin irritation or skin and peripheral neuropathy have	o controlled skin contact studies with this material n allergy. Central nervous system (CNS) effects been reported in the industrial setting followin this material; however, these mixtures contained ervous system injury.
			chemistry were reported in rats. term inhalation exposure to this r or cats. Animal studies have sho the onset of , irreversible nervous ketone, as well as effects of chlo increase the incidence of tumors number of major birth defects we inhalation during pregnancy at a offspring, but not in the mothers. repeat study with rats using very were noted in the mothers and the material by inhalation during preg- (mild effects only) and their offsp	posure, slight changes in organ weights and bloo No evidence of nervous system injury following long material has been observed in rats, chickens, mice own this material to increase the severity of, or shorten s system effects due to n-hexane and methyl butyl proform and carbon tetrachloride. This material did not is in long-term skin application studies in mice. A small ere reported in rats exposed to this material by level (3,000 ppm) which produced toxic effects in the However, no birth defects were found in a second similar exposure conditions, while adverse effects neir offspring. In mice exposed to 3000 ppm of this gnancy, toxic effects were observed in the mothers oring. This material has generally produced no genetic animals and animal or bacterial cells. A positive ssay using yeast cells.

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12. ECOLOC	GICAL INFOR	MATION (for (	detailed Ecologic	cal dat	a, write or call the address or	r non-emergency number shown on Section 1).	
	Ecotoxicological Information				Data on this material and / or its components are summarized below.		
		Methyl Ethyl K	etone Peroxide	:	This material is toxic to guppies	s (96-hr LC 50 44.2 mg/l).	
	2,2,4-Trimethyl-1,3-Pentanec Hexylene Glycol			ol Diisc	This material is no more than n	noderately toxic to fathead minnow, ramshorn snails, ners, pill bugs and flatworms (96-hr LC50s hr EC 50 >1.46 mg/l)	
				:	organisms by acute toxicity tes sunfish, fathead minnow, mosc in excess of 1,000 mg/l and ge	d to be practically non-toxic to a variety of aquatic ting. Freshwater fish including rainbow trout, bluegill juito fish, goldfish and channel catfish had LC 50 values nerally were in the range of 8,000 to 10, 000 mg/l Daphnia and crayfish had EC 50 values greater	
		Methyl Ethyl K	etone	:	microorganisms (Escherichia c Leuconostoc citrovorum and S	with and is reported to be bacteriostatic to several oli, Salmonella typhimurium, Staphylococcus aurous, treptococcus thermophilus) at levels of 10-100 mg/l. n reported for freshwater algae at levels ranging from 4,300 mg/l (green algae)	
	Chemical Fate Information			:	Data on this material and / or it	s components are summarized below.	
		Methyl Ethyl K	etone Peroxide	:		e readily biodegradable in a closed bottle system. An in an activated sludge respiration inhibition test.	
		2,2,4-Trimethy	I-1,3-Pentanedic	ol Diisc	In a 28 day modified Sturm Test degradation to CO2. The bioco	st, this material was found to undergo 32%-59% oncentration factor without metabolism was estimated ). The log Pow is estimated to be 4.1.	
		Hexylene Glyc	ol	:	Chemical oxygen demand (CO that this material is readily biod	D) and biological oxygen demand (BOD) indicated legraded.	
		Methyl Ethyl K	etone	:	Extensive data suggests that the sludge microorganisms at conc	nis material is readily biodegradable. It is non-toxic to centrations up to 800 ug/l.	
13. DISPOS	AL CONSIDE	RATIONS					
	Waste Disposal			:	incineration is the preferred me	teral, state and local regulations. Dilution followed by thod. Dilution ratio of 10:1 in a clean, compatible al oil will reduce reactivity hazard during incineration	

### 14. TRANSPORT INFORMATION

CFR (D.O.T.)

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	Proper Shipping D.O.T. Technic D.O.T. Hazard UN / ID Numbe Packing Group RQ	al Name : Class : r :	[Met 5.2 UN3 III	anic Peroxide Type D,   hyl Ethyl Ketone Perox 105 nyl Ethyl Ketone Peroxi	xide(s), = 45%]

#### 15. REGULATORY INFORMATION (not meant to be all-inclusive -- selected regulations represented)

Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections or health and safety information.

The components of this product are either on the TSCA inventory list or exempt as impurities.

### Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health Delayed (Chronic) Health	Y N	,				
Fire	Y					
Reactive	Ý					
Sudden Release of Pressure	N					
Ingredient Related Regulatory Information	:					
SARA Reportable Quantities		<u>CERCLA RO</u>	<u>SARA TPQ</u>			
Hexylene Glycol		NE				
Hydrogen Peroxide		NE	1000 pounds			
Water		NE				
Methyl Ethyl Ketone		5000 pounds				
Methyl Ethyl Ketone Peroxide	• •	10 pounds				
2,2,4-Trimethyl-1,3-pentanedic	ol diisobutyrat	NE				
SARA Title III, Section 313	subject	uct does contain chemical(s) which are defined as the reporting requirements of, Section 313 of Title ents and Reauthorization Act of 1986 and 40CFR	e III of the Superfund			
SARA Title III, Section 302	Hazaro	This product does contain chemical(s), as indicated below, currently on the Extremely Hazardous Substance List, Section 302, SARA Title III. See Section 2 for further details regarding concentrations and registry numbers: Hydrogen Peroxide				
Massachusetts Right To Know						
	following che	cal(s), as indicated below, currently on the Ma	assachusetts Right To Know			
Hexylene Gly	col					
Hydrogen Per	oxide					
Methyl Ethyl k	Cetone					
Methyl Ethyl k	Cetone Peroxi	(s)				
New Jersey Right To Know	:					

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right To Know

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	S	ubstance Lis	t:		
			Hexylene Glycol		
			Hydrogen Peroxide Methyl Ethyl Ketone		
			Methyl Ethyl Ketone Per	oxide(s)	
Penns	ylvania Rig	ht To Know	:		
	Ť			hemical(s), as indicated	below, currently on the Pennsylvania Right To Know
			Hexylene Glycol		
			Hydrogen Peroxide		
			Methyl Ethyl Ketone Methyl Ethyl Ketone Pere	oxide(s)	
Penns	ylvania Env	vironmental H	lazard :		
		his product d lazard List.	loes contain the following c	hemical(s), as indicated	below, currently on the Pennsylvania Environmental
			Hexylene Glycol		
			Hydrogen Peroxide		
			Methyl Ethyl Ketone Methyl Ethyl Ketone Pere	ovido(s)	
				uniuc(s)	

#### Miscellaneous

Additional Incompatibility Data :

:

Rust, copper and brass are not compatible with MEK peroxide. 316 stainless steel, glass, polyethylene, polytetrafluoroethylene and polypropylene are preferrec materials for contact with MEK peroxide. Acetone may react with residual hydrogen peroxide to form insoluble shock-sensitive acetone peroxide crystals.

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Protective Floorings and Linings. EH&S Product Safety Department