

Revision Date:	05/12	Print Date:	08/30/12	
Version 2.0		MSDS Identification:	6700LS - Primer - Part B	Polymerization Initiator, Organic Peroxide

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	:	6700LS - Primer - 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	r:	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 ME	EASURES				
Eye	Contact		:	Immediately flush with plenty of immediately.	water for 15 minutes. Get medical attention
Skir	n Contact		:	5	plenty of water. Remove contaminated clothing and Nash clothing before reuse. Destroy contaminated
Inge	estion		:	•	water to drink. Get medical attention immediately. IOUTH TO AN UNCONSCIOUS PERSON.
Inha	alation		:	Move to fresh air. If breathing is	s difficult, get medical attention.
5. FIRE-FIGHTIN	NG MEASURE	S			

Flammable Properties Flash Point Method Used Auto Ignition Temperature	: : :	160 degrees F (71degrees C) CC Seta CC NE
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 S	Sectior	n 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.

7. HANDLING AND STORAGE

Revision Date: Version 2.0	05/12	Print Date: MSDS Identification:		Polymerization Initiator, Organic Peroxide
Handling		:	(See Section (9) may result in a of flammable vapors which may Avoid contamination. Use only v equipment. Keep container closs product residue. Wash thorough	ials or exposure to temperatures exceeding SADT self accelerating decomposition reaction with release autoignite. Keep away from heat sparks and flame. with adequate ventilation. Use explosion proof sed. Do not reuse container as it may retain hazardous hly after handling. Do not get in eyes, on skin or on or mist. Do not taste or swallow. Avoid prolonged or
Storage			content. Detached storage is pr ventilated place. Store away fro	degrees C) to maintain stability and active oxyger referred. Store out of direct sunlight in a cool well- om combustibles and incompatible materials. Refer also cy (NFPA) Code 432. Code for the Storage of

### 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 contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.
Skin Protection	:	Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before use. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.
Respiratory Protection :		Avoid breathing vapor or mist. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and / or its components. Full face piece equipment is recommended and, if used, replaces need for face shield and / or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self contained air supply. Respiratory protection programs must comply with 29 CFR 1910.134.
Airborne Exposure Guidelines For Ingredients	:	
Hexylene Glycol	:	ACGIH STEL - 25ppm 121mg/m3
Hydrogen Peroxide	:	ACGIH TWA - 1 ppm 1.4 mg/m3 OSHA TWA PEL - 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 a	re prin	nted 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	: This material is chemically unstable and should only be handled under specific conditions. See HANDLING AND STORAGE section of this MSDS for specific conditions.
decomposition reaction, a decomposition reaction, a the length of time needed	composition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating s reaction will generate flammable vapors which may autoignite. The length of time to generate a r the SADT has been reached or exceeded, id dependent upon how much the SADT has been exceeded and r the reaction exotherm (heat spike from increasing decomposition rate) to initiate a rapid decomposition reaction. proportional to package size. Larger packages will have a lower SADT due to similar ratio to heat transfer
Incompatibility With Other Materials	: Contact with strong acids, alkalis, oxidizers, transition metal salts, promoters / accelerators and reducing agents may result in a violent decomposition reaction or product degradation. (see Section 16).
Hazardous Decomposition Products	: Temperatures at or above the SADT can result in the release of hazardous decomposition products which are flammable and may autoignite.
Hazardous Polymerization	: Does not occur.
11. TOXICOLOGICAL INFORMATION	
Toxicological Information	: Data on this material and / or its components are summarized below
Methyl Ethyl Ketone	Yeroxide : Single exposure (acute) studies indicate that this material (40%-60% in dimethyl phthalate) is moderately toxic to rats if swallowed (LD50 484mg/kg), slightly toxic to rabbits if absorbed through skin (LD50 4,000 mg/kg), practically non-toxic to rats if inhaled (4-hr LC50 17-50 mg/l), corrosive to rabbit eyes, and moderately irritating to rabbit skin (4-hr exposure, 4.5/8.0).
	Following an allergic skin reaction in a paint sprayer, patch testing produced an allergic skin reaction with this material as well as other components of the paint. However, subsequent patch testing did not produce allergic skin reactions in 34 healthy subjects. Swallowing of this material was reported to cause liver injury in one case report.
	Repeated oral administration of this material was reported to result in decreased body weight, mild liver and kidney injury and death in rats. Following repeated application of this material in dimethyl phthalate to the skin of rats and mice, severe skin damage and animal deaths (only at the highest dose levels) were the primary effects. Spleen and bone marrow changes considered secondary to the severe skin damage were noted in animals at the high doses. Higher doses applied to rat and mouse skin for a shorter time produced similar effects. Long-term repeated skin application of this material in dimethyl phthalate was reported to enhance skin tumor production in mice irradiated with UVB. This material has produced genetic changes in standard tests using bacterial or animal cells. However, no genetic changes occurred in a standarc test using animals.
2,2,4-Trimethyl-1,3-	entanediol Diisobutyrate: Single exposure (acute) studies 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 and to guinea pig skin.
	No skin allergy was observed in guinea pigs following repeated exposure. Increased liver weights, which were probably adaptive changes due to the induction of drug metabolizing enzymes in these tissues, were observed in rats or dogs fed up to 1% in their feed for up to 103 days. This material is eliminated in the excreta of rats following a single oral dose with little or no retention in the tissues or organs.
Hexylene Glycol :	Single exposure (acute) studies indicate that this material is slightly toxic to rats, rabbits, mice and guinea pigs if swallowed (LD50 2,800-4,700 mg/kg), practically non-toxic tc rabbits if absorbed through skin (LD50 12,300 mg/kg), severely irritating to rabbi eyes, and moderately irritating to rabbit skin. No deaths occurred in rats exposed to about 160 ppm for 8-hours.
	Skin application of 50% of this material in water showed only minimal irritation in human volunteers, while repeated application of consumer products containing up to 1% showed no irritant or sensitizing effects in humans. Patch tests have shown sensitization responses in individuals working with cutting oils containing this material. Rats and rabbits exposed to 0.7 m/l for 9 days showed no adverse effects. This material in the diet at up to 150 mg daily for 4 months produced no adverse effects on growth, behavior or fertility in rats. Changes in the kidney were noted at 200 mg/day No genetic changes were observed in tests using bacteria or animal cells.
Methyl Ethyl Ketone :	Single exposure (acute) studies indicate that this material is no more than slightly toxic to rats if swallowed (LD50 2,700-5,600 mg/kg), practically non-toxic to rabbits if absorbed through skin (LD50 5,000-13,000mg/kg) or rats if inhaled (4-hr LC50 11,001 ppm), and moderately irritating to rabbit eyes and skin.
	Repeated exposure of humans to controlled skin contact studies with this material produced no skin irritation or skin allergy. Central nervous system (CNS) effects and peripheral neuropathy have been reported in the industrial setting following exposure to mixtures containing this material; however, these mixtures contained other solvents known to cause nervous system injury.
	Following repeated inhalation exposure, slight changes in organ weights and blood chemistry were reported in rats. No evidence of nervous system injury following long term inhalation exposure to this material has been observed in rats, chickens, mice or cats. Animal studies have shown this material to increase the severity of, or shorten the onset of , irreversible nervous system effects due to n-hexane and methyl butyl ketone, as well as effects of chloroform and carbon tetrachloride. This material did not increase the incidence of tumors in long-term skin application studies in mice. A small number of major birth defects were reported in rats exposed to this material by inhalation during pregnancy at a level (3,000 ppm) which produced toxic effects in the offspring, but not in the mothers. However, no birth defects were found in a second repeat study with rats using very similar exposure conditions, while adverse effects were noted in the mothers and their offspring. In mice exposed to 3000 ppm of this material by inhalation during pregnancy, toxic effects were observed in the mothers (mild effects only) and their offspring. This material has generally produced no genetic changes in standard tests using animals and animal or bacterial cells. A positive response was reported in one assay using yeast cells.

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12. ECOLOGICAL INFO	ORMATION (for de	etailed Ecological	data	, write or call the address or	non-emergency number shown on Section 1).
Ecotoxicolo	gical Information	:	I	Data on this material and / or its	components are summarized below.
	Methyl Ethyl Kel	tone Peroxide :		This material is toxic to guppies	(96-hr LC 50 44.2 mg/l).
	2,2,4-Trimethyl-	1,3-Pentanediol E	-	This material is no more than mo	oderately toxic to fathead minnow, ramshorn snails, ers, pill bugs and flatworms (96-hr LC50s r EC 50 >1.46 mg/l)
	Hexylene Glycol	l :	i i	organisms by acute toxicity testi sunfish, fathead minnow, mosqu n excess of 1,000 mg/l and gen	to be practically non-toxic to a variety of aquatic ng. Freshwater fish including rainbow trout, bluegill ito fish, goldfish and channel catfish had LC 50 values erally were in the range of 8,000 to 10, 000 mg/l aphnia and crayfish had EC 50 values greater
	Methyl Ethyl Kel	tone :	   	microorganisms (Escherichia co Leuconostoc citrovorum and Str	vth and is reported to be bacteriostatic to several li, Salmonella typhimurium, Staphylococcus aurous, eptococcus thermophilus) at levels of 10-100 mg/l. reported for freshwater algae at levels ranging from ,300 mg/l (green algae)
Chemical Fa	ate Information	:	I	Data on this material and / or its	components are summarized below.
	Methyl Ethyl Ket	tone Peroxide :			readily biodegradable in a closed bottle system. An an activated sludge respiration inhibition test.
	2,2,4-Trimethyl-	1,3-Pentanediol E		n a 28 day modified Sturm Test degradation to CO2. The biocor	, this material was found to undergo 32%-59% ncentration factor without metabolism was estimated The log Pow is estimated to be 4.1.
	Hexylene Glycol	I :		Chemical oxygen demand (COD hat this material is readily biode	) and biological oxygen demand (BOD) indicated graded.
	Methyl Ethyl Kel	tone :		Extensive data suggests that thi sludge microorganisms at conce	s material is readily biodegradable. It is non-toxic to entrations up to 800 ug/l.
13. DISPOSAL CONSI	DERATIONS				
Waste Disposal			i	ncineration is the preferred met	eral, state and local regulations. Dilution followed by hod. Dilution ratio of 10:1 in a clean, compatible I oil will reduce reactivity hazard during incineration

### 14. TRANSPORT INFORMATION

CFR (D.O.T.)

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	Proper Shipping D.O.T. Technica D.O.T. Hazard ( UN / ID Number Packing Group RQ	al Name Class	: [ : 5 : L : I	Drganic Peroxide Type D, Liquid Methyl Ethyl Ketone Peroxide(s) 5.2 JN3105 II Methyl Ethyl Ketone Peroxide(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		<b>(</b> )	
Fire	Y			
Reactive	Ý			
Sudden Release of Pressure	N			
Ingredient Related Regulatory Information	:			
SARA Reportable Quantities			<u>CERCLA RO</u>	<u>SARA TPO</u>
Hexylene Glycol			NE	
Hydrogen Peroxide			NE	1000 pounds
Water			NE	
Methyl Ethyl Ketone			5000 pounds	
Methyl Ethyl Ketone Peroxid			10 pounds	
2,2,4-Trimethyl-1,3-pentanedi	ol diis	sobutyrate	NE	
SARA Title III, Section 313	:	subject to the reportin	tain chemical(s) which are defined as to g requirements of, Section 313 of Title I authorization Act of 1986 and 40CFR Pa	II of the Superfund
SARA Title III, Section 302	:	Hazardous Substance	tain chemical(s), as indicated below, cu List, Section 302, SARA Title III. See centrations and registry numbers: Hydro	Section 2 for further
Massachusetts Right To Know	:			
	follov	ving chemical(s), as in	dicated below, currently on the Mas	sachusetts Right To Know
Hexylene Gly	col			
Hydrogen Per	roxide	<u>)</u>		
Methyl Ethyl K	Keton	е		
Methyl Ethyl k	Keton	e Peroxide(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 Li	st:		
	0		Hexylene Glycol		
			Hydrogen Peroxide		
			Methyl Ethyl Ketone		
			Methyl Ethyl Ketone Pe	eroxide(s)	
Penr	isylvania Rig	ht To Know	:		
			does contain the following	chemical(s), as indicated b	below, currently on the Pennsylvania Right To Know
		ubstance Li			, , , ,
			Hexylene Glycol		
			Hydrogen Peroxide		
			Methyl Ethyl Ketone		
			Methyl Ethyl Ketone Pe	eroxide(s)	
Penr	isylvania Env	vironmental l	Hazard :		
		his product azard List.	does contain the following	chemical(s), as indicated b	below, currently on the Pennsylvania Environmental
			Hexylene Glycol		
			Hydrogen Peroxide		
			Methyl Ethyl Ketone		
			Methyl Ethyl Ketone Pe	eroxide(s)	
OTHER INFO	RIVIATION				

#### 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