

Revision Date:	05/12	Print Date:	08/30/12	
Version 2.0		MSDS Identification:	6200FS - Part B	Polymerization Initiator, Organic Peroxide

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	:	6200FS - 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) MEASURES	5				
	Eye Contact		:	Immediately flush with plent immediately.	y of water for 15 minutes. Get medical attention	
	Skin Contact			Immediately flush the area with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Destroy contaminated shoes.		
	Ingestion		:	-	Give water to drink. Get medical attention immediately. BY MOUTH TO AN UNCONSCIOUS PERSON.	
	Inhalation		:	Move to fresh air. If breathi	ng is difficult, get medical attention.	
5. FIRE-FIGH	HTING MEAS	URES				
	Flammable Pro	pperties Flash Point Method Used Auto Ignition Te	: : emperature :	160 degrees F (71degrees Seta CC NE	C) CC	

Adio ignition remper	iature .	
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 Section	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 fro	degrees C) to maintain stability and active oxyger oreferred. Store out of direct sunlight in a cool well- om 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 glove glove material for given application. A chemical resistant clothing such as a immediately if skin is contaminated. I 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 equipme 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 Cei ACGIH TW OSHA TW/ 200ppm 59	A A PEL	- -	300ppm 885 mg/m3 200ppm 590mg/m3 200ppm 590 mg/m3
	Methyl Ethyl K	etone Peroxide :	ACGIH STE	EL	-	0.2 ppm 1.5 mg/m3
*Only those con	nponents with e	exposure limits are p	rinted 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 ϵ 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 rection, after the needed for the inversely pro-	eaction will gene ne SADT has bee ne reaction exoth	rate flammable vapors which may a en reached or exceeded, id depende erm (heat spike from increasing dec	th the tested package size will undergo a self-accelerating nutoignite. 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. we 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 Dec	composition Pro	ducts		•	SADT can result in the release of hazardous are flammable and may autoignite.
	Hazardous Pol	ymerization		:	Does not occur.	
11. TOXICO	LOGICAL INF	ORMATION				
	Toxicological Ir	nformation		:	Data on this material and / or it	ts components are summarized below
		Methyl Ethyl K	etone Per		phthalate) is moderately toxic t rabbits if absorbed through ski	s indicate that this material (40%-60% in dimethyl to 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	tion in a paint sprayer, patch testing produced an allergic as well as other components of the paint. However, not produce allergic skin reactions in 34 healthy subjects. s reported to cause liver injury in one case report.
					weight, mild liver and kidney in of this material in dimethyl phth and animal deaths (only at the and bone marrow changes cor noted in animals at the high do shorter time produced similar e material in dimethyl phthalate irradiated with UVB. This mate	of this material was reported to result in decreased body ijury and death in rats. Following repeated application halate to the skin of rats and mice, severe skin damage highest dose levels) were the primary effects. Spleen hisidered secondary to the severe skin damage were oses. Higher doses applied to rat and mouse skin for a effects. Long-term repeated skin application of this was 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-Pent		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 a	and to guinea pig skin.
			liver weights, which were proba metabolizing enzymes in these their feed for up to 103 days. T	n guinea pigs following repeated exposure. Increased bly adaptive changes due to the induction of druc tissues, were observed in rats or dogs fed up to 1% in this material is eliminated in the excreta of rats following no retention in the tissues or organs.
He	xylene Glycol	:	mice and guinea pigs if swallow rabbits if absorbed through skin	s indicate that this material is slightly toxic to rats, rabbits, yed (LD50 2,800-4,700 mg/kg), practically non-toxic to a (LD50 12,300 mg/kg), severely irritating to rabbi to rabbit skin. No deaths occurred in rats exposed to
			human volunteers, while repeat 1% showed no irritant or sensiti sensitization responses in indivi Rats and rabbits exposed to 0.7 material in the diet at up to 150 growth, behavior or fertility in ra	material in water showed only minimal irritation in ted application of consumer products containing up to izing effects in humans. Patch tests have shown iduals working with cutting oils containing this material. 7 m/l for 9 days showed no adverse effects. This mg daily for 4 months produced no adverse effects on its. Changes in the kidney were noted at 200 mg/day rved in tests using bacteria or animal cells.
Ме	thyl Ethyl Ketone	:	to rats if swallowed (LD50 2,700	s indicate that this material is no more than slightly toxic 0-5,600 mg/kg), practically non-toxic to rabbits if ,000-13,000mg/kg) or rats if inhaled (4-hr LC50 11,000 to rabbit eyes and skin.
			produced no skin irritation or sk and peripheral neuropathy have	to controlled skin contact studies with this material in allergy. Central nervous system (CNS) effects e been reported in the industrial setting following g this material; however, these mixtures contained nervous system injury.
			chemistry were reported in rats. term inhalation exposure to this or cats. Animal studies have sh the onset of , irreversible nervou ketone, as well as effects of chl increase the incidence of tumor number of major birth defects w inhalation during pregnancy at a offspring, but not in the mothers repeat study with rats using ver were noted in the mothers and material by inhalation during pre (mild effects only) and their offs	exposure, slight changes in organ weights and bloor . No evidence of nervous system injury following long a material has been observed in rats, chickens, mice hown this material to increase the severity of, or shorten us system effects due to n-hexane and methyl butyl loroform and carbon tetrachloride. This material did not rs in long-term skin application studies in mice. A small vere reported in rats exposed to this material by a level (3,000 ppm) which produced toxic effects in the s. However, no birth defects were found in a second y similar exposure conditions, while adverse effects their offspring. In mice exposed to 3000 ppm of this egnancy, toxic effects were observed in the mothers spring. This material has generally produced no genetic g animals and animal or bacterial cells. A positive assay using yeast cells.

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12. ECOLOO	GICAL INFOR	MATION (for	detailed Ecologic	cal dat	a, write or call the address o	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 guppie	s (96-hr LC 50 44.2 mg/l).		
	2,2,4-Trimethyl-1,3-Pentanedi				This material is no more than r	noderately toxic to fathead minnow, ramshorn snails, mers, pill bugs and flatworms (96-hr LC50s -hr EC 50 >1.46 mg/l)		
	Hexylene Glycol			:	organisms by acute toxicity tes sunfish, fathead minnow, most in excess of 1,000 mg/l and ge	ed to be practically non-toxic to a variety of aquatic sting. Freshwater fish including rainbow trout, bluegill quito fish, goldfish and channel catfish had LC 50 values enerally 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 o Leuconostoc citrovorum and S	owth and is reported to be bacteriostatic to several coli, Salmonella typhimurium, Staphylococcus aurous, streptococcus 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 i	ts components are summarized below.		
		Methyl Ethyl K	etone Peroxide	:		be readily biodegradable in a closed bottle system. An in an activated sludge respiration inhibition test.		
		2,2,4-Trimethy	rl-1,3-Pentanedic	ol Diisc	In a 28 day modified Sturm Te degradation to CO2. The bioc	st, this material was found to undergo 32%-59% oncentration factor without metabolism was estimated 0. The log Pow is estimated to be 4.1.		
		Hexylene Glyc	ol	:	Chemical oxygen demand (CC that this material is readily biod	DD) and biological oxygen demand (BOD) indicated degraded.		
		Methyl Ethyl K	etone	:	Extensive data suggests that t sludge microorganisms at con-	his 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	deral, state and local regulations. Dilution followed by ethod. Dilution ratio of 10:1 in a clean, compatible ral oil will reduce reactivity hazard during incineration			

14. TRANSPORT INFORMATION

CFR (D.O.T.)

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	Proper Shipp D.O.T. Techr D.O.T. Hazar UN / ID Numl Packing Grou RQ	ical Name d Class per	:	Organic Peroxide Type D, Liquid [Methyl Ethyl Ketone Peroxide(s), 5.2 UN3105 III Methyl Ethyl Ketone Peroxide(s) =	

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	Y		<i>。</i>			
Delayed (Chronic) Health	N					
Fire	Ŷ					
Reactive Sudden Release of Pressure	Y N					
Ingredient Related Regulatory Information	:					
SARA Reportable Quantities			<u>CERCLA RO</u>	SARA TPQ		
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-pentanedi	ol diis	sobutyrate	NE			
SARA Title III, Section 313	:	subject to the reporting	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		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	:					
This product does contain the Substance List:	follow	wing chemical(s), as in	dicated below, currently on the Mas	sachusetts Right To Know		
Hexylene Gly						
Hydrogen Per	roxide))				
Methyl Ethyl k						
Methyl Ethyl H	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	Substance Lis							
		Hexylene Glycol Hydrogen Peroxide						
		Methyl Ethyl Ketone						
		Methyl Ethyl Ketone Pere	oxide(s)					
Pennsylvania Rig	ht To Know	:						
1	This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Right To Know Substance List:							
		Hexylene Glycol						
		Hydrogen Peroxide						
		Methyl Ethyl Ketone Methyl Ethyl Ketone Pere	oxide(s)					
Pennsylvania En	vironmental H	azard :						
1			hemical(s), as indicated	I below, currently on the Pennsylvania Environmental				
		Hexylene Glycol						
		Hydrogen Peroxide Methyl Ethyl Ketone						
		Methyl Ethyl Ketone Per	oxide(s)					
		5 5						
16. OTHER INFORMATION								

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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Prepared By

Protective Floorings and Linings. EH&S Product Safety Department