

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

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	:	6200VS 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:	:	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				
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Eye Contact			Immediately flush with plenty of immediately.	f water for 15 minutes. Get medical attention
Skin Contact		:		plenty of water. Remove contaminated clothing and Wash clothing before reuse. Destroy contaminated
Ingestion			•	e water to drink. Get medical attention immediately. MOUTH TO AN UNCONSCIOUS PERSON.
Inhalation		: 1	Move to fresh air. If breathing i	s difficult, get medical attention.
5. FIRE-FIGHTING MEASU	JRES			
Flammable Prop	erties			

Flash Point 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	ectior	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

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Handling		:	(See Section (9) may result in a of flammable vapors which may Avoid contamination. Use only equipment. Keep container clos product residue. Wash thorough	rials 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 icy (NFPA) Code 432. Code for the Storage of

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures	:	limits. Provide ventilation if necessar	o reduce exposures below airborne exposure ry to control exposure levels below airborne ical, use local mechanical exhaust ventilation at open process equipment.
Eye / Face Protection	:	Where there is potential for eye conta have eye flushing equipment immedi	act, wear a face shield, chemical goggles, and iately available.
Skin Protection	:	to prevent skin contact. Consult glov glove material for given application. chemical resistant clothing such as a immediately if skin is contaminated. before reuse. Clean protective equip	protective clothing and chemical resistant gloves ve manufacturer to determine appropriate type Wear chemical goggles, a face shield, and a rubber apron when splashing may occur. Rinse Remove contaminated clothing promptly and wash oment before use. Provide a safety shower at 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 em be a potential for significant exposure	re airborne exposure is likely, use NIOSH pment appropriate to the material and / or its pent is recommended and, if used, replaces need gles. If exposures cannot be kept at a minimum spirator 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, or positive-pressure airline with auxiliary self 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 a	re prin	ited 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		:		ble and should only be handled under specific O STORAGE section of this MSDS for specific
	decomposition reaction. This reactior decomposition reaction, after the SAE the length of time needed for the reac	i will gen)T has be tion exot	erate flammable vapors which may auto een reached or exceeded, id dependent herm (heat spike from increasing decor	the tested package size will undergo a self-accelerating oignite. The length of time to generate a upon how much the SADT has been exceeded and nposition rate) to initiate a rapid decomposition reaction. a lower SADT due to similar ratio to heat transfer
Incompatibility V	Vith Other Materials	:		, oxidizers, transition metal salts, promoters / s may result in a violent decomposition reaction tion 16).
Hazardous Deco	omposition Products	:	Temperatures at or above the SA decomposition products which ar	ADT can result in the release of hazardous re flammable and may autoignite.
Hazardous Poly	merization	:	Does not occur.	
11. TOXICOLOGICAL INF	ORMATION			
Toxicological Inf	ormation	:	Data on this material and / or its	components are summarized below
	Methyl Ethyl Ketone Peroxide	:	phthalate) is moderately toxic to rabbits if absorbed through skin (ndicate that this material (40%-60% in dimethyl rats if swallowed (LD50 484mg/kg), slightly toxic to (LD50 4,000 mg/kg), practically non-toxic to rats if corrosive to rabbit eyes, and moderately irritating to 0).
			skin reaction with this material as subsequent patch testing did not	n in a paint sprayer, patch testing produced an allergic s well as other components of the paint. However, produce allergic skin reactions in 34 healthy subjects. eported to cause liver injury in one case report.
			weight, mild liver and kidney injur of this material in dimethyl phthal and animal deaths (only at the hi and bone marrow changes consi noted in animals at the high dose shorter time produced similar effer material in dimethyl phthalate wa irradiated with UVB. This material	his material was reported to result in decreased body ry and death in rats. Following repeated applicatior late to the skin of rats and mice, severe skin damage ghest dose levels) were the primary effects. Spleen dered secondary to the severe skin damage were es. Higher doses applied to rat and mouse skin for a ects. Long-term repeated skin application of this is reported to enhance skin tumor production in mice al has produced genetic changes in standard tests lowever, no genetic changes occurred in a standarc
	2,2,4-Trimethyl-1,3-Pentaned	iol Diis		ndicate 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 11,000 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 bloor 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.

Devision Data	ΟE/10	Drint Data	00/20/10	
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12. ECOLOGICAL INFOR	MATION (for de	tailed Ecological da	ta, write or call the address or	non-emergency number shown on Section 1).
Ecotoxicologica	al Information	:	Data on this material and / or its	components are summarized below.
	Methyl Ethyl Ket	one Peroxide :	This material is toxic to guppies	(96-hr LC 50 44.2 mg/l).
	2,2,4-Trimethyl-	1,3-Pentanediol Diis	This material is no more than m	oderately toxic to fathead minnow, ramshorn snails, hers, pill bugs and flatworms (96-hr LC50s hr EC 50 >1.46 mg/l)
	Hexylene Glycol	:	organisms by acute toxicity test sunfish, fathead minnow, mosqu in excess of 1,000 mg/l and gen	I to be practically non-toxic to a variety of aquatic ing. Freshwater fish including rainbow trout, bluegill uito fish, goldfish and channel catfish had LC 50 values terally were in the range of 8,000 to 10, 000 mg/l vaphnia and crayfish had EC 50 values greater
	Methyl Ethyl Ket	one :	microorganisms (Escherichia co Leuconostoc citrovorum and Str	wth and is reported to be bacteriostatic to several li, Salmonella typhimurium, Staphylococcus aurous, reptococcus thermophilus) at levels of 10-100 mg/l. reported for freshwater algae at levels ranging from 4,300 mg/l (green algae)
Chemical Fate	Information	:	Data on this material and / or its	components are summarized below.
	Methyl Ethyl Ket	one Peroxide :		e readily biodegradable in a closed bottle system. An n an activated sludge respiration inhibition test.
	2,2,4-Trimethyl-	1,3-Pentanediol Diis	In a 28 day modified Sturm Test degradation to CO2. The bioco	t, 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	:	Chemical oxygen demand (COL that this material is readily biode	D) and biological oxygen demand (BOD) indicated egraded.
	Methyl Ethyl Ket	one :	Extensive data suggests that the sludge microorganisms at conce	is material is readily biodegradable. It is non-toxic to entrations up to 800 ug/l.
13. DISPOSAL CONSIDE	RATIONS			
Waste Disposa	1	:	incineration is the preferred met	eral, state and local regulations. Dilution followed by hod. 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 Name D.O.T. Technical Name D.O.T. Hazard Class UN / ID Number Packing Group RQ		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	e (Acute) Health	Y		, ,	
Delayed (Chronic) Health	Ν			
Fire		Y			
Reactive		Y			
Sudden R	elease of Pressure	Ν			
Ingredient Related Regula	tory Information	:			
<u>SARA Re</u>	portable Quantities			<u>CERCLA RQ</u>	SARA TPQ
Hexylene	Glycol			NE	
Hydrogen	Peroxide			NE	1000 pounds
Water				NE	
Methyl Et	hyl Ketone			5000 pounds	
Methyl Et	hyl Ketone Peroxide(s)		10 pounds	
2,2,4-Trim	nethyl-1,3-pentanedic	ol diiso	outyrate	NE	
SARA Title III, Section 313	3	:	subject to the reportir	ntain chemical(s) which are defined as to ng requirements of, Section 313 of Title authorization Act of 1986 and 40CFR Pa	II of the Superfund
SARA Title III, Section 302	2	:	Hazardous Substance	ntain chemical(s), as indicated below, cu e List, Section 302, SARA Title III. See centrations and registry numbers: Hydro	Section 2 for further
Massachusetts Right To K	(now	:			
	uct does contain the	followi	ng chemical(s), as ir	ndicated below, currently on the Mas	sachusetts Right To Know
Substance					
	Hexylene Glyc	ol			
	Hexylene Glyc	oxide			

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	st:		
	0		Hexylene Glycol		
			Hydrogen Peroxide		
			Methyl Ethyl Ketone		
			Methyl Ethyl Ketone Pe	eroxide(s)	
F	Pennsylvania Rig	ht To Know	:		
			does contain the following	chemical(s), as indicated I	below, currently on the Pennsylvania Right To Know
		ubstance Lis			, , , , , ,
			Hexylene Glycol		
			Hydrogen Peroxide		
			Methyl Ethyl Ketone		
			Methyl Ethyl Ketone Pe	eroxide(s)	
F	Pennsylvania Env	vironmental I	Hazard :		
	Ť			chemical(s), as indicated I	below, currently on the Pennsylvania Environmental
			Hexylene Glycol		
			Hydrogen Peroxide		
			Methyl Ethyl Ketone		
			Methyl Ethyl Ketone Pe	eroxide(s)	
OTHER IN	IFORMATION				

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