

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

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	:	6200VS Veilcoat - 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 MEASURE	ËS			
Eye Contact			Immediately flush with plenty of immediately.	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. IOUTH TO AN UNCONSCIOUS PERSON.
Inhalation		:	Move to fresh air. If breathing is	s difficult, get medical attention.
5. FIRE-FIGHTING MEA	SURES			

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	Sectio	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 v equipment. Keep container clos 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 ed. Do not reuse container as it may retain hazardous nly 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 preventilated place. Store away from	degrees C) to maintain stability and active oxyger eferred. Store out of direct sunlight in a cool well- m 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 prir	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 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 reaction decomposition reaction, after the SAD he length of time needed for the react	will gen T has be ion 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 W	/ith Other Materials	:		, oxidizers, transition metal salts, promoters / s may result in a violent decomposition reaction tion 16).
Hazardous Deco	mposition 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 Polyr	nerization	:	Does not occur.	
11. TOXICOLOGICAL INFO	DRMATION			
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 effe 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 application 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-Pentanedi	ol 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.

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12. ECOLOGICAL	INFOR	MATION (for	detailed Ecolog	ical dat	a, write or call the address or	non-emergency number shown on Section 1).
Ecoto	xicologica	I Information		:	Data on this material and / or its	components are summarized below.
		Methyl Ethyl K	etone Peroxide	:	This material is toxic to guppies	(96-hr LC 50 44.2 mg/l).
		2,2,4-Trimethy	I-1,3-Pentaned	iol Diisc	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 Glyc	ol	:	organisms by acute toxicity testii sunfish, fathead minnow, mosqu in excess of 1,000 mg/l and gene	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 K	etone	:	microorganisms (Escherichia col Leuconostoc citrovorum and Stro	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)
Chemi	ical Fate	Information		:	Data on this material and / or its	components are summarized below.
		Methyl Ethyl K	etone Peroxide	:		readily biodegradable in a closed bottle system. An an activated sludge respiration inhibition test.
		2,2,4-Trimethy	I-1,3-Pentaned	iol Diisc	In 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 Glyc	ol	:	Chemical oxygen demand (COD that this material is readily biode) and biological oxygen demand (BOD) indicated graded.
		Methyl Ethyl K	etone	:	Extensive data suggests that this sludge microorganisms at conce	s material is readily biodegradable. It is non-toxic to entrations up to 800 ug/l.
13. DISPOSAL CO	NSIDEI	RATIONS				
Waste	e Disposal			:	incineration is the preferred meth	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 Name D.O.T. Technical Nam D.O.T. Hazard Class UN / ID Number Packing Group RQ	ie : : :	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	ales (40 CFK Fait 370)		
Delayed (Chronic) Health	Ν			
Fire	Y			
Reactive	Y			
Sudden Release of Pressure	Ν			
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	(s)		10 pounds	
2,2,4-Trimethyl-1,3-pentanedi	ol diisol	butyrate	NE	
SARA Title III, Section 313	:	subject to the reporting requirer	nical(s) which are defined as toxic ch- ments of, Section 313 of Title III of the ion Act of 1986 and 40CFR Part 372.	e Superfund
SARA Title III, Section 302	:	Hazardous Substance List, Sec	nical(s), as indicated below, currently ction 302, SARA Title III. See Sectior s and registry numbers: Hydrogen Pe	2 for further
Massachusetts Right To Know	:			
This product does contain the Substance List:	followi	ng chemical(s), as indicated I	below, currently on the Massachu	setts Right To Know
Hexylene Gly	col			
Hydrogen Per	oxide			
Methyl Ethyl k	Ketone			
Methyl Ethyl k	Ketone	Peroxide(s)		
New Jersey Right To Know	: followin		holow aurrantly on the New Jaros	

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

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	S	iubstance Li	st:		
			Hexylene Glycol		
			Hydrogen Peroxide		
			Methyl Ethyl Ketone		
			Methyl Ethyl Ketone Po	eroxide(s)	
	Pennsylvania 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 Po	eroxide(s)	
	Pennsylvania Env	/ironmental	Hazard :		
				chemical(s), as indicated b	below, currently on the Pennsylvania Environmental
		lazard List.		, ,,	5
			Hexylene Glycol		
			Hydrogen Peroxide		
			Methyl Ethyl Ketone		
			Methyl Ethyl Ketone P	eroxide(s)	
0.7.1.5.5					
OTHER	R 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