MARTIN SENOUR PAINTS®
Automotive Finishes

MATERIAL SAFETY DATA SHEET

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Sealers

SEALER/N

CAS No.	HAZARDOUS INGREDIENT (percent by weight)	ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	4105 Window 1 Pint	4106 Weld 11 ounces	4111 Clear Glass	4121 Windshield Seal	4200 Brushable Seam	4203 Butyl Wind Shield	4211 Stop Drip	4301 Seam Sealers White	4313 Seam Sealers Neutral	4323 Seam Sealers Black
64742-89-8	Lt. Aliphatic HC Solvent	Not Established				35	35								
64742-47-8	Lt. Aliphatic HC Solvent	100	100	PPM	2.0				34					10	
142-82-5	Heptane	400 <500>	400 <500>	PPM	50.0						3				
8012-95-1	Paraffinic Oil	5 <10>	5	Mg/M3					3						
1092-34-3	Heavy Naphthenic Distillate	5 <10>	5	Mg/M3					2		2				
108-88-3 §	Toluene	50	100 <150>	PPM (Skin)	22.0			60		28		15	26		27
100-41-4 §	Ethylbenzene	100 <150>	100 <150>	PPM	7.1						2				
1330-20-7 §	Xylene	100 <150>	100 <150>	PPM	5.9						7			2	
78-93-3 §	Methyl Ethyl Ketone	200 <300>	200 <300>	PPM	70.0					9		30	2		2
110-43-0	Methyl n-Amyl Ketone	50	50	PPM	2.1							1			
140-88-5 §	Ethyl Acrylate	5 <15>	5 <25>	PPM	30.0			0.5							
8052-42-4	Asphalt	5	5	Mg/M3		15	15				14				
9004-34-6	Cellulose	10	5 <15>	Mg/M3		2	2								
14808-60-7	Quartz	0.1	0.1	Mg/M3	as Resp. Dust					0.2			0.3	0.2	
63231-67-4	Silica Gel	10	6	Mg/M3						3			5		5
7631-86-9	Amorphous Silica	10	6	Mg/M3	as Dust						2				
1332-58-7	Kaolin	2	5 <10>	Mg/M3 [Resp.	as Dust Fraction]				17						
14807-96-6	Talc	2	2	Mg/M3	as Resp. Dust					8	17		5	7	5
471-34-1	Calcium Carbonate	10	15[5]	Mg/M3 [Resp.	as Dust Fraction]	20	20		22	15			20	56	19
7727-43-7 §	Barium Sulfate	10	10[5]	Mg/M3 [Resp.	as Dust Fraction]								5		5
1333-86-4	Carbon Black	3.5	3.5	Mg/M3		1	1		2						
§	Zinc Compound										5				
	Weight per gallon (lbs.)					8.75	8.75	8.17	9.0	9.44	8.0	9.42	9.73	13.1	9.71
	Flash Point / DOL Storage Category					15 / 1B	15 / 1B	44 / 1B	100 / 2	16 / 1B	16 / 1B	16 / 1B	28 / 1B	16 / 1B	16 / 1B
	VOC - Total Volatile Organic Compounds (lbs.)					3.1	3.1	4.9	3.1	3.5	2.8	4.3	3.2	2.0	2.9
	VOC - Less Water and exempt Solvents (lbs.)					3.1	3.1	4.9	3.1	3.5	2.8	4.3	3.2	2.0	2.9
	HMIS® (NFPA) Rating (health - fire - reactivity) / PAINT-SAFE® Code					J2	J2	J2	J2	J2	J2	J2	J2	J2	J2

§ Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.65 C

Section III — PHYSICAL DATA

PRODUCT WEIGHT — See TABLE
SPECIFIC GRAVITY — 0.96-1.6
BOILING RANGE — <0-395 °F
VOLATILE WEIGHT -- 15-60 %
SOLUBILITY IN WATER — Not Applicable
VAPOR DENSITY — Heavier than Air
MELTING POINT — Not Applicable

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION *FLASH POINT* See TABLE *LEL* 1.0 *UEL* 10.0
RED LABEL -- Flammable, Flash below 100 °F
EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section V — HEALTH HAZARD DATA

ROUTES OF EXPOSURE
Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.
ACUTE Health Hazards
EFFECTS OF OVEREXPOSURE
Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Ethyl acrylate in 4111 Clear Glass Sealer may cause allergic skin reaction in susceptible persons.
EMERGENCY AND FIRST AID PROCEDURES
If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
If on SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
If SWALLOWED: Seek medical attention.
CHRONIC Health Hazards
Crystalline Silica (Quartz, Cristobalite) is listed by IARC. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.
Ethyl acrylate in 4111 Clear Glass Sealer is listed as a potential carcinogen by IARC and NTP, causing stomach and nasal tumors in laboratory animals.
No other ingredient in these products is an IARC, NTP, or OSHA listed carcinogen.
Methyl Ethyl Ketone may increase the nervous system effects of other solvents.
Some animal studies with poor controls indicated that Bitumens (Asphalt) cause tumors, however, there is inadequate evidence that Bitumens alone are carcingenic to humans.
Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary, cardiovascular, and reproductive systems.
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section VI — REACTIVITY DATA

STABILITY — Stable
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION — Will Not Occur

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate and remove with inert absorbent.
WASTE DISPOSAL METHOD
Waste from these products may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed containers. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section VIII — PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE
Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed “as Dust” in Section II) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section II, the applicable limits for nuisance dusts are ACGIH TLV 10 mg./m3 (total dust), OSHA PEL 15 mg./m3 (total dust), 5 mg./m3 (respirable fraction).
VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.
RESPIRATORY PROTECTION
If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.
PROTECTIVE GLOVES
Impermeable gloves (rubber or neoprene) must be worn when using 4111 Clear Glass Seal. Gloves are not required when using other listed sealers unless skin irritation develops.
EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

Section IX — PRECAUTIONS

DOL STORAGE CATEGORY — See TABLE
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.
OTHER PRECAUTIONS
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

This Material Safety Data Sheet conforms to the Hazard Communication standard, 29 CFR 1910.1200(g)(4), for similar complex mixtures.
The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.