

Section 1 —
Product Identification

MARTIN
SENOUR
PAINTS®
Automotive Finishes

Material Safety Data Sheet

The Martin Senour Co.
101 Prospect Ave. N.W.
Cleveland, OH 44115

Emergency telephone number
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Date of preparation

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PRISM™ 3.5 VOC Acrylic Urethane System

35PRISM/N

CAS No.	Section 2 — Hazardous Ingredients (percent by weight)	ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	65-Series		Accelerator
						3.5 VOC Intermixes Non-Lead Colors	Hardener	
64742-88-7	Mineral Spirits.	100	100	PPM	2.0		6591 3.5 VOC Hardener	6595 Accelerator
94-96-2	2-Ethyl-1,3-hexanediol	Not Established				1 - 3		
78-93-3	Methyl Ethyl Ketone.	200 <300>		PPM	70.0	0 - 5		
123-54-6	2,4-Pentanedione	Not Established			7.0			99
110-43-0	Methyl n-Amyl Ketone.	50	100	PPM	2.1	11 - 20	4	
590-01-2	n-Butyl Propionate.	Not Established			3.4	3 - 8		
763-69-9	Ethyl 3-Ethoxypropionate.	Not Established			1.1		7	
123-86-4	n-Butyl Acetate.	150 <200>		PPM	10.0	8 - 22	8	87
90438-79-2	Oxo-Heptyl Acetate.	Not Established			0.8		3	
108419-32-5	Oxo-Octyl Acetate.	Not Established			0.75		2	
108-65-6	1-Methoxy-2-Propanol Acetate	Not Established			1.8	1 - 2		
Proprietary	Hexamethylene Diisocyanate Polymer.	0.5 C-1		Mg/M3 Supplier Limit			75	
822-06-0	Hexamethylene Diisocyanate (Max.)	0.005		PPM	0.05		0.15	
Proprietary	Substituted Cyclohexyldiaminoethyl Esters	Not Established				6 - 10		
13643-67-7	Titanium Dioxide	10	10[5]	Mg/M3 [Resp. Fraction]		0 - 40		
1333-86-4	Carbon Black.	3.5	3.5	Mg/M3		0 - 2		
	§ Zinc Compound [% Zinc]							5 [1.0]
	Weight per Gallon (lbs.)					8 - 12	8.92	7.37
	Volatle Organic Compounds (VOC) - Total (lbs./gal.)					3.6 - 3.9	2.22	7.02
	VOC - Less Water & Federally Exempt Solvents (lbs./gal.)					3.6 - 3.9	2.22	7.02
	Photochemically Reactive					No	No	No
	Flash Point (°F)					50 - 70	90	72
	DOL Storage Category					1B	1C	1B
	HMS (NFPA) Rating (health - flammability - reactivity)					2* - 3 - 0	3* - 3 - 1	2 - 3 - 0

P E R C E N T B Y W E I G H T

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

Section 3 — Physical Data

PRODUCT WEIGHT See TABLE
 SPECIFIC GRAVITY 0.88-1.44
 BOILING RANGE 174-573 °F
 VOLATILE VOLUME 30-98 ‡

EVAPORATION RATE Slower than Ether
 VAPOR DENSITY Heavier than Air
 MELTING POINT N.A.
 SOLUBILITY IN WATER N.A.

Section 4 — Fire And Explosion Hazard Data

FLAMMABILITY CLASSIFICATION FLASH POINT See TABLE
 RED LABEL -- Flammable, Flash below 100 °F
 EXTINGUISHING MEDIA Carbon Dioxide, Dry Chemical, Foam
 UNSUSCEPTIBLE TO 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 5 — Health Hazard Data

ROUTES OF EXPOSURE Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use.
 Alcohols and Acetates can be absorbed through the skin. 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; burning sensation may indicate eye or excessive skin exposure.
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.
 EMERGENCY AND FIRST AID PROCEDURES
 IF INHALED: If any breathing problems occur during use, LEAVE THE AREA and get fresh air. If problems remain or occur later, IMMEDIATELY get medical attention.
 Wash affected area thoroughly with soap and water.
 IF IN EYES: Remove contaminated clothing and launder before re-use.
 Flush eyes with large amount of water for 15 minutes. Get medical attention.
 IF SWALLOWED: Get medical attention.
 CHRONIC Health Hazards Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.
 Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and immune systems.
 Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.
 Methyl Ethyl Ketone may increase the nervous system effects of other solvents.
 2-Ethyl-1,3-hexanediol is considered an animal teratogen. It has been shown to cause birth defects and reproductive disorders in laboratory animals. There is no evidence to indicate it causes birth defects in humans.
 Rats exposed to titanium dioxide dust at 250 mg./m³ developed lung cancer, however, such exposure levels are not attainable in the workplace.
 Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section 6 — Reactivity Data

STABILITY — Stable
 CONDITIONS TO AVOID None known.
 INCOMPATIBILITY
 Metallics contain Aluminum. Contamination with Water, Acids, or Alkalis can cause evolution of hydrogen, which may result in dangerously increased pressures in closed containers.
 Contamination of hardener with Water, Alcohols, Amines, and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.
 HAZARDOUS DECOMPOSITION PRODUCTS
 By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Metals in Section 2
 HAZARDOUS POLYMERIZATION — Will Not Occur

Section 7 — 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.
 If hardener is spilled, all personnel in the area should be protected as in Section 8. Cover spill with absorbent material. Decontaminate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.
 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. Waste from products containing Methyl Ethyl Ketone may also require testing for extractability.
 Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section 8 — Protection Information

PRECAUTIONS TO BE TAKEN IN USE
 NO PERSON SHOULD USE THESE PRODUCTS, OR BE IN THE AREA WHERE THESE PRODUCTS ARE BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.
 Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
 These coatings may contain materials classified as nuisance particulates (listed "as dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg./m³ (total dust), 3 mg./m³ (respirable fraction), OSHA PEL 5 mg./m³ (total dust), 5 mg./m³ (respirable fraction).
 VENTILATION Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.109.
 RESPIRATORY PROTECTION Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturer's directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THESE PRODUCTS ARE BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.
 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.
 Wear gloves which are recommended by glove supplier for protection against materials in Section 2.
 EYE PROTECTION Wear safety spectacles with unperforated sideshields.
 OTHER PROTECTIVE EQUIPMENT Use barrier cream on exposed skin.

Section 9 — 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 These products must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.
 Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 10 — Other Regulatory Information

TSCA CERTIFICATION
 All chemicals in these products are listed, or are exempt from listing, on the TSCA Inventory.
 The above information pertains to these products as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to these products may substantially alter the composition and hazards of the product. Since conditions of use are outside our control we make warranties, express or implied, and assume no liability in connection with any use of this information.