— Section 1 —
Product Identification

MARTIN SENOUR PAINTS® Automotive Finishes

Material Safety Data Sheet

The Martin Senour Co.
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Emergency telephone number (216) 566-2917
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Putties

PUTTY/N

— Section 2 — CAS No.	Hazardous Ingredients (percent by weight)	ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	6390 Glazing Putty Light Gray	6394 Glazing Putty Red Oxide	6389 TEC-FLOW™ Polyester Finishing & Blending Putty	6389H TEC-FLOW™ Polyester Putty Hardener	6398 Tec/GLAZE® Polyester Glazing Putty	6398H Tec/GLAZE® Polyester Glazing Putty Hardener
100-42-5 §	Styrene	50 <100>	50 <100>	PPM	4.3			20 - 30		13-20	
108-88-3 §	Toluene	50	100 <150>	PPM (Skin)	22.0	18	18				
1330-20-7 §	Xylene	100 <150>	100 <150>	PPM	5.9	3	3				
67-63-0	2-Propanol	400 <500>	400 <500>	PPM	33.0	3	3				
123-86-4	n-Butyl Acetate	150 <200>	150 <200>	PPM	10.0	10	10				
94-36-0 §	Dibenzoyl Peroxide	5	5	Mg/M3					50		50
8001-78-3	Hydrogenated Castor Oil	Not Established								1-5	
14807-96-6	Talc	2	2	Mg/M3	as Resp. Dust	28	28	15 - 20		40-50	
7727-43-7	Barium Sulfate	10	10[5]	Mg/M3 [Resp.	as Dust Fraction]	20	20				
471-34-1	Calcium Carbonate	10	15[5]	Mg/M3 [Resp.	as Dust Fraction]			10 -15			
13463-67-6	Titanium Dioxide	10	10[5]	Mg/M3 [Resp.	as Dust Fraction]	3	1	<5		7-13	
	[% Barium]					[11.8]	[11.8]				
	Weight per Gallon (lbs.)					12.9	12.9	7.8	10.0	14.0	10.0
	VOC - Total Volatile Organic Compounds (lbs./gal.)					4.4	4.4	1.7	0.0	2.4	0.0
	VOC - Less Water and exempt Solvents (lbs./gal.)					4.4	4.4	1.7	0.0	2.4	0.0
	Photochemically Reactive as Packaged					Yes	Yes	Yes	No	Yes	No
	Flash Point (°F)					55	55	92	184	90	180
	Flammability Classification (Flammable - Combustible)					Flammable	Flammable	Flammable	Combustible	Flammable	Combustible
	DOL Storage Category					1B	1B	1C	3A	1C	3A
	HMIS® (NFPA) Rating (health - flammability - reactivity)					2 - 3 - 0	2 - 3 - 0	2* - 3 - 2	2 - 2 - 1	2* - 3 - 2	2 - 2 - 1

PERCENT BY WEIGHT

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

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Section 3 — Physical Data

PRODUCT WEIGHT	See TABLE	*EVAPORATION RATE*	Slower than Ether
SPECIFIC GRAVITY	1.2-1.6	*VAPOR DENSITY*	Heavier than Air
BOILING POINT	148-294 °F	*MELTING POINT*	Not Available
VOLATILE VOLUME	0-40 %	*SOLUBILITY IN WATER*	Not Available

Section 4 — Fire And Explosion Hazard Data

FLAMMABILITY CLASSIFICATION *FLASH POINT* See TABLE *LEL* 01.0 *UEL* 36.5
See TABLE
EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Alcohol 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.
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. Follow recommendations for proper use, ventilation, and personal protective equipment to minimize exposure.
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
None generally recognized.
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: Get medical attention.
CHRONIC Health Hazards
Styrene in Polyester Glazing Putty is listed by IARC as a possible human carcinogen based on "inadequate evidence" in humans, "limited evidence" in animals, and the fact that it is metabolized to styrene oxide, which has been shown to induce cancer in animals. However, studies of humans exposed for long periods of time to styrene have not demonstrated any carcinogenic effect.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, cardiovascular, and reproductive systems.
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 -- Temperatures above 75 °F.
INCOMPATIBILITY
Avoid any contamination of Polyester Glazing Putty with polymerization catalysts such as peroxides and strong acids.
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.
WASTE DISPOSAL METHOD
Waste from Glazing Putty Hardener is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste from other products may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, and should be tested for ignitability to determine the applicable EPA Hazardous Waste numbers.
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
Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
These products 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 15 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,
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.
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 2.
PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section 2.
EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

Section 9 — Precautions

DOL STORAGE CATEGORY — See TABLE
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Keep away from heat and open flame.
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 may 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

CALIFORNIA PROPOSITION 65
WARNING: 6389, 6389H, and 6398 contain a chemical known to the State of California to cause cancer. 6390 and 6394 contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
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 products. 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.