

— Section 1 —
Product Identification



Automotive Finishes

Material Safety Data Sheet

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

Emergency telephone number
Information telephone number
Date of preparation

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CROSSFIRE® Clearcoat

CC5000/N

— Section 2 —		ACGIH	OSHA		Vapor	CC5000	CC3500	CH253
CAS No.	Hazardous Ingredients (percent by weight)	TLV <STEL>	PEL <STEL>	Units	Pressure (mm Hg)	Clearcoat	3.5 VOC Clearcoat	High Solid Hardener
100-41-4	§ Ethylbenzene	100 <125>	100 <125>	ppm	7.1	0.3	0.3	
64742-95-6	Light Aromatic Hydrocarbons.	Not Established			3.8	4	3	
108-67-8	1,3,5-Trimethylbenzene	25	25	ppm	10.0	4	4	
95-63-6	§ 1,2,4-Trimethylbenzene	25	25	ppm	2.0	7	6	
98-56-6	p-Chlorobenzotrifluoride.	Not Established			5.3		21	5
78-93-3	§ Methyl Ethyl Ketone.	200 <300>	200 <300>	ppm	70.0	12	10	
5440-89-1	5-Ethyl-2-nonanone	Not Established				2	2	
927-49-1	Diamyl Ketone.	Not Established				2	2	
110-43-0	Methyl n-Amyl Ketone.	50	100	ppm	2.1	14	3	
123-86-4	n-Butyl Acetate.	150 <200>	150 <200>	ppm	10.0	2	2	
Proprietary	Light Stabilizer.	Not Established				1	1	
28182-81-2	Hexamethylene Diisocyanate Polymer.	0.5 C 1		mg/m3 Supplier Limit				95
822-06-0	Hexamethylene Diisocyanate (Max.)	0.005		ppm	0.05			0.2
Weight per Gallon (lbs.)						8.04	8.70	9.67
VOC (Volatile Organic Compounds) Total - lbs./gal.						3.97	2.98	0.00
VOC Less Water & Federally Exempt Solvents - lbs./gal.						3.97	3.55	0.00
Photochemically Reactive						Yes	Yes	No
Flash Point (°F)						12	12	135
DOL Storage Category						1B	1B	2
Flammability Classification (Flammable - Combustible)						Flammable	Flammable	Combustible
HMIS (NFPA) Rating (health - flammability - reactivity)						2* - 3 - 0	2* - 3 - 0	3* - 2 - 1

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§ 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	EVAPORATION RATE	Slower than Ether
SPECIFIC GRAVITY	0.97-1.16	VAPOR DENSITY	Heavier than Air
BOILING RANGE	174-464 °F	MELTING POINT	N.A.
VOLATILE VOLUME	4-58 %	SOLUBILITY IN WATER	N.A.

Section 4 — Fire And Explosion Hazard Data

FLAMMABILITY CLASSIFICATION	FLASH POINT	See TABLE	LEL	0.7	UEL	10.5
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See TABLE
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 5 — 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

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.

If on SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

If SWALLOWED: Do not induce vomiting. Get medical attention immediately.

CHRONIC Health Hazards

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

Prolonged overexposure to solvent ingredients in Clearcoats may cause adverse effects to the liver, urinary, blood forming and reproductive systems. Prolonged overexposure to solvent ingredients in Clearcoat Hardener may cause adverse effects to the liver and urinary systems.

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

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

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 the area. All personnel in the area should be

protected as in Section 8. Cover spill with absorbent material. If Hardener or mixture containing Hardener is spilled, deactivate 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 extractability testing.

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 PERSONS 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 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, 1910.107, 1910.108.

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.

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.

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. Vapors will accumulate readily and may ignite explosively. 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

CALIFORNIA PROPOSITION 65

WARNING: CC3500 and CC5000 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.