

— Section 1 —
Product Identification



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

(216) 566-2917
(216) 566-2902
June 28, 1999

©1999, The Martin Senour Co.

Epoxy Primers

CAS No.	— Section 2 — Hazardous Ingredients (percent by weight)	ACGIH	OSHA	Units	Vapor Pressure (mm Hg)	6102	6101	6115	5120	5121	5123
		TLV <STEL>	PEL <STEL>			Gray	Red	Activator/ Hardener	Tec® System 4.6 Epoxy Primer Gray	Black	Activator
108-88-3	§ Toluene.	50 <150>	100 <150>	PPM (Skin)	22.0			2			
100-41-4	§ Ethylbenzene	100 <125>	100 <125>	PPM	7.1	2	2	4			
1330-20-7	§ Xylene.	100 <150>	100 <150>	PPM	5.9	11	11	24			
64-17-5	Ethanol	1000	1000	PPM	44.0			23			
67-63-0	2-Propanol	400 <500>	400 <500>	PPM	33.0						19
71-36-3	§ 1-Butanol	C 50	50	PPM (Skin)	5.5	3	4	25			20
107-98-2	1-Methoxy-2-propanol	Not Established			10.9			3			
2807-30-9	2-Propoxyethanol	Not Established			1.3			6			
111-76-2	§ 2-Butoxyethanol	25	25	PPM (Skin)	0.6	2	3				
78-93-3	§ Methyl Ethyl Ketone.	200 <300>	200 <300>	PPM	70.0	3	3		5	5	
108-10-1	§ Methyl Isobutyl Ketone.	50 <75>	50 <75>	PPM	16.0	12	12				
110-43-0	Methyl n-Amyl Ketone.	50	100	PPM	2.1	2	2		27	27	
123-86-4	n-Butyl Acetate.	150 <200>	150 <200>	PPM	10.0						40
108-65-6	1-Methoxy-2-Propanol Acetate	Not Established			1.8				3	3	
111-40-0	Diethylenetriamine.	1	1	PPM (Skin)	0.1			1			
Proprietary	Epoxy Polymer.	Not Established				26	27		21	21	
Unknown	Polyamine.	Not Established						9			20
1332-58-7	Kaolin	2	5	Mg/M3	as Resp. Dust	4	4				
14807-96-6	Talc	2	2	Mg/M3	as Resp. Dust	15	17		12	14	
7727-43-7	Barium Sulfate. [% Barium]	10	10[5]	Mg/M3	as Dust [Resp. Fraction]				12 [7.3]	14 [8.4]	
13463-67-7	Titanium Dioxide.	10	10[5]	Mg/M3	as Dust [Resp. Fraction]	7			6		
1333-86-4	Carbon Black.	3.5	3.5	Mg/M3					0.1	0.9	
7789-06-2	Strontium Chromate.	0.0005		Mg/M3			7				
§ Chromium VI Compound. [% Chromium]						7 [1.6]					
§ Zinc Compound. [% Zinc]						10 [6.4]			12 [7.5]	12 [7.7]	
Weight per Gallon (lbs.)						10.74	10.61	7.12	11.32	11.12	7.15
VOC (Volatile Organic Compounds) Total - lbs./gal.						3.98	3.90	6.48	4.07	4.07	5.63
VOC Less Water & Federally Exempt Solvents - lbs./gal.						3.98	3.90	6.48	4.07	4.08	5.63
Flash Point (°F) / Photochemically Reactive						45 / Yes	45 / Yes	55 / Yes	45 / No	45 / No	50 / No

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	EVAPORATION RATE	Slower than Ether
SPECIFIC GRAVITY	0.86-1.36	VAPOR DENSITY	Heavier than Air
BOILING RANGE	172-419 °F	MELTING POINT	N.A.
VOLATILE VOLUME	56-93 %	SOLUBILITY IN WATER	N.A.

Section 4 — Fire And Explosion Hazard Data

FLAMMABILITY CLASSIFICATION	FLASH POINT	See TABLE	LEL	0.9	UEL	19.0
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 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. 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

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: Activator/Hardener => Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Give conscious patient several glasses of water. Seek medical attention.

Other Products => Get medical attention.

CHRONIC Health Hazards

Certain products contain Chromate (See TABLE and PRODUCT LABEL). Chromates are listed by IARC and NTP. Studies have associated exposure to Chromium VI compounds with an increased risk of respiratory cancer.

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.

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

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

None known.

INCOMPATIBILITY

None known.

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 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 Chromium must also be tested for extractability. 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

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

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.

When sanding, wirebrushing, abrading, burning, or welding the dried film, wear a particulate respirator approved by NIOSH/MSHA for protection against non-volatile 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.

OTHER PROTECTIVE EQUIPMENT

Use of barrier cream on exposed skin is recommended.

Section 9 — Precautions

DOL STORAGE CATEGORY — 1B

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Contents are FLAMMABLE. 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 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: 5120 and 5121 contain a chemical known to the State of California to cause cancer. 6101 and 6102 contain chemicals known to the State of California to cause cancer. 6115 contains 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 this products 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.