



Material Safety Data Sheet

The Martin Senour Co.
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Miscellaneous Products

MISC/N1

— Section 2 —		ACGIH	OSHA		Vapor	8840	8841	3081	3022	77B	87	3084	8684	8883
CAS No.	Hazardous Ingredients (percent by weight)	TLV <STEL>	PEL <STEL>	Units	Pressure (mm Hg)	Universal Retarder	Universal Urethane Retarder	Blending Solvent	Flatting & Thinning Compound	SQUIRTZ® Flow Additive	Fisheye Eliminator	Urethane Flexible Additive	Low VOC Flex Additive	Tec/SYSTEM® Speed Control Additive
64742-89-8	V. M. & P. Naphtha.	300	300 <400>	ppm	12.0			28		No ingredients in this product are hazardous as defined by the Department of Labor.				
108-88-3	§ Toluene.	50	100 <150>	ppm (Skin)	22.0	18	No ingredients in this product are hazardous as defined by the Department of Labor.	15	23			47		
100-41-4	§ Ethylbenzene	100	100 <125>	ppm	7.1			0.3	3					
1330-20-7	§ Xylene.	100	100 <150>	ppm	5.9			2	18					
78-83-1	2-Methyl-1-propanol	50	50	ppm	8.7				4					
111-76-2	§ 2-Butoxyethanol	25	25	ppm (Skin)	0.6			3						
67-64-1	Acetone.	750 <1000>	1000	ppm	180.0			31						
98-56-6	p-Chlorobenzotrifluoride	Not Established			5.3								58	
78-93-3	§ Methyl Ethyl Ketone.	200 <300>	200 <200>	ppm	70.0				24					
123-86-4	n-Butyl Acetate.	150 <200>	150 <200>	ppm	10.0	21					95	2	1	99
110-19-0	Isobutyl Acetate.	150	150	ppm	12.5			12						
112-07-2	§ 2-Butoxyethyl Acetate.	Not Established			1.0	56		3	3					
108-65-6	1-Methoxy-2-Propanol Acetate	Not Established			1.8	4								
28182-81-2	Hexamethylene Diisocyanate Polymer.	0.5 <1.0>		mg/m3 Supplier Limit								50	39	
822-06-0	Hexamethylene Diisocyanate (max.)	0.005		ppm	0.05							0.2	0.1	
14808-60-7	Quartz	0.05	0.05	mg/m3 as Resp. Dust					0.2					
14807-96-6	Talc	2	2	mg/m3 as Resp. Dust					22					
	Weight per Gallon (lbs.)					7.58	9.15	6.80	8.44	8.09	7.34	8.18	10.14	7.32
	VOC - Total Volatile Organic Compounds (lbs./gal.)					7.58	9.15	4.46	6.29	0.00	6.97	4.09	0.27	7.24
	VOC Less Water & Federally Exempt Solvents - lbs./gal.					7.58	9.15	6.59	6.29	0.00	6.97	4.09	0.57	7.24
	Photochemically Reactive					No	No	No	Yes	No	No	Yes	No	No
	Flash Point (°F)					40	>200	4	20	> 200	72	43	102	81
	DOL Storage Category					1B	3B	1B	1B	3B	1B	1B	2	1C
	Flammability Classification (Flammable - Combustible - Not Applicable)					Flam.	NAp	Flam.	Flam.	NAp	Flam.	Flam.	Comb	Flam.
	HMIS (NFPA) Rating (health - flammability - reactivity)					2 - 3 - 0	1 - 1 - 0	2 - 3 - 0	2 - 3 - 0	0 - 1 - 0	2 - 3 - 0	3* - 3 - 0	3* - 2 - 0	2 - 3 - 0

§ 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	0.82-1.10	VAPOR DENSITY	Heavier than Air
BOILING RANGE	132-419 °F	MELTING POINT	N.A.
VOLATILE VOLUME	0-100 %	SOLUBILITY IN WATER	N.A.

Section 4 — Fire And Explosion Hazard Data

FLAMMABILITY CLASSIFICATION	FLASH POINT	See TABLE	LEL	0.5	UEL	13.1
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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. 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 or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Flexible Additives 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 on SKIN: If problems remain or occur later, IMMEDIATELY get medical attention.

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

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.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. 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.

Prolonged overexposure to solvent ingredients in 8840, 3081, 3022, and 3084 may cause adverse effects to the liver, urinary, blood forming, cardiovascular, and reproductive systems. Prolonged overexposure to solvent ingredients in 87 and 8883 may cause adverse effects to the blood forming systems. Prolonged overexposure to solvent ingredients in 8684 may cause adverse effects to the liver, urinary, and blood forming systems.

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

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 Flexible Additive 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 and remove with inert absorbent.

If Flexible Additive is spilled, all personnel in the area should be protected as in Section 8. Cover spill with absorbent material. 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.

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 THE FLEXIBLE ADDITIVES, OR BE IN THE AREA WHERE THE ADDITIVES ARE BEING USED, IF HE/SHE HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF HE/SHE 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

FLEXIBLE ADDITIVES --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 THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.

OTHER LISTED PRODUCTS -- 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 or abrading 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 barrier cream on exposed skin when using Flexible Additive.

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 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: 3022, 3081, 3084, 8684 and 8840 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.