

**MATERIAL SAFETY DATA SHEET**

Automotive Finishes

THE MARTIN-SENOUR CO.  
101 PROSPECT AVE. N.W.  
CLEVELAND, OH 44115

EMERGENCY TELEPHONE NO. (216) 566-2917  
INFORMATION TELEPHONE NO. (216) 566-2902  
DATE OF PREPARATION 30-OCT-96

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**Adhesives****ADH/N**

SECTION II CAS No. HAZARDOUS INGREDIENT (percent by weight)		ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	4011 Quick Tack Adhesive	4030 Plastic Emblem Ad	4031 Trim Adhesive	4032 Trim Adhesive	4051 Weatherstrip Adhesive	4061 Dual WStrip Adhesive	4070 G.P. Solv Cleaner	4081 Disc Adhesive	4083 Disc Adhesive	4085 Disc Adhesive	
74-98-6	Propane		1000	PPM	760.0				14							15
75-28-5	2-Methylpropane		Not Established		760.0				6							5
110-54-3	§ Hexane	50	50	PPM	127.0	37	21	55	16	32	29		65	65		
107-83-5	Isohexane Isomers.	500 <1000>	500 <1000>	PPM	250.0	37	1	3	1	2	2		20	20		
64742-89-8	Lt. Aliphatic Hydrocarbon Solvent	100	100	PPM	53.0							48				
75-09-2	§ Methylene Chloride.	50		PPM	420.0				42							58
108-88-3	§ Toluene.	50	100 <150>	PPM (Skin)	22.0		27	5		12	11	49				
1330-20-7	§ Xylene.	100 <150>	100 <150>	PPM	5.9							3				
67-64-1	Acetone.	750 <1000>	750 <1000>	PPM	180.0					9	28					
7631-86-9	Amorphous Silica.	10	6	Mg/M3	as Dust				1							
1332-58-7	Kaolin	2	5	Mg/M3	as Resp. Dust			9								
§	Zinc Compound. [% Zinc]					6 [0.5]		2 [0.2]								
	Weight per Gallon (lbs.)					6.65	7.48	6.65	8.45	7.67	7.09	6.57	5.88	5.88		8.32
	VOC (Volatile Organic Compounds) Total - lbs./gal.					4.95	3.66	4.18	3.12	3.56	3.01	6.56	4.95	4.95		1.66
	VOC Less Water & Federally Exempt Solvents - lbs./gal.					4.95	3.66	4.18	4.61	3.98	4.32	6.56	4.95	4.95		2.96
	Photochemically Reactive					No	Yes	No	No	No	No	Yes	No	No		No
	Flash Point (°F)					-10	-25	-10	0	0	1	45	-25	-25		0
	DOL Storage Category					1B	1B	1B	1A	1B	1B	1B	1B	1B		1A
	HMIS (NFPA) Rating (health - flammability - reactivity)					2* 3 0	2* 3 0	2* 3 0	2* 4 0	2* 3 0	2* 3 0	2 3 0	2* 3 0	2* 3 0		2* 4 0

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

## Section III — PHYSICAL DATA

**PRODUCT WEIGHT** - See TABLE  
**SPECIFIC GRAVITY** - 0.79-1.02  
**BOILING RANGE** - <0-292 °F  
**VOLATILE VOLUME** - >50 %

**SOLUBILITY IN WATER** - Not Applicable  
**VAPOR DENSITY** - Heavier than Air  
**MELTING POINT** - Not Applicable

## Section IV — FIRE AND EXPLOSION HAZARD DATA

**FLAMMABILITY CLASSIFICATION** FLASH POINT See TABLE LEL 1.0 UEL 12.8  
 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 V — 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.  
 Overexposure to Methylene Chloride in 4032 and 4085 Spray Adhesives can raise the level of carbon monoxide in the blood.  
**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**  
 Cardiovascular problems may be aggravated by overexposure to Methylene Chloride in 4032 and 4085 Spray Adhesives.  
**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: Seek medical attention.  
**CHRONIC Health Hazards**  
 Methylene Chloride in 4032 and 4085 Spray Adhesives is listed by IARC and NTP. Laboratory animals exposed to high levels of Methylene Chloride in lifetime studies have developed cancer. There is no evidence to date that Methylene Chloride causes cancer in humans.  
 No other ingredient in these products is an IARC, NTP, or OSHA listed carcinogen.  
 Prolonged and repeated overexposure to Hexane may cause damage to nerve tissue of the arms and legs (peripheral neuropathy), resulting in muscular weakness and loss of sensation. This effect may be increased by the presence of Methyl Ethyl Ketone.  
 Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary, cardiovascular, and reproductive systems.  
 Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

## Section VI — REACTIVITY DATA

**STABILITY** - Stable  
**CONDITIONS TO AVOID**  
 None known.  
**INCOMPATIBILITY**  
 None known.  
**HAZARDOUS DECOMPOSITION PRODUCTS**  
 By fire: Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride, Oxides of Metals in Section II  
**HAZARDOUS POLYMERIZATION** - Will Not Occur

## Section VII — 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.  
**For Spray Adhesives 4032 and 4085:**  
 Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local Regulations regarding pollution.  
**For All non-Spray Adhesives:**  
 Incinerate in approved facility. Do not incinerate closed containers. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

## Section VIII — 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 II) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section II, the applicable limits for nuisance dusts are ACGIH TLV 10 mg./m<sup>3</sup> (total dust), 3 mg./m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg./m<sup>3</sup> (total dust), 5 mg./m<sup>3</sup> (respirable fraction).  
**VENTILATION**  
 Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II 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 II.  
 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 II.  
**EYE PROTECTION**  
 Wear safety spectacles with unperforated sideshields.

## Section IX — PRECAUTIONS

**DOL STORAGE CATEGORY** - See TABLE  
**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**  
 Contents are FLAMMABLE. 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.  
**For Spray Adhesives 4032 and 4085:**  
 Contents under pressure. Do not puncture, incinerate, or expose to temperatures above 120 °F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.  
**For All non-Spray Adhesives:**  
 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**  
 Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## Section X — OTHER REGULATORY INFORMATION

**CALIFORNIA PROPOSITION 65**  
 WARNING: 4030, 4031, 4051, 4061 and 4070 contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. 4011, 4032, 4081, 4083 and 4085 contain a chemical(s) known to the State of California to cause cancer.

**TSCA CERTIFICATION**  
 All chemicals in these products are listed, or are exempt from listing, on the TSCA Inventory.

This Material Safety Data Sheet conforms to the Hazard Communication standard, 29 CFR 1910.1200(g)(4), for similar complex mixtures.  
 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 product 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.