### MATERIAL SAFETY DATA SHEET

**THE MARTIN-SENOUR CO.**  
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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

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>HAZARDOUS INGREDIENT</th>
<th>ACGIH TLV &lt;STEL&gt;</th>
<th>OSHA PEL &lt;STEL&gt;</th>
<th>Units</th>
<th>Vapor Pressure (mm Hg)</th>
<th>4011 Quick Tack Adhesive</th>
<th>4030 Plastic Emblem Adhesive</th>
<th>4031 Trim Adhesive</th>
<th>4032 Trim Adhesive</th>
<th>4051 Weatherstrip Adhesive</th>
<th>4061 Dual WSrip Adhesive</th>
<th>4070 G.P. Solv Cleaner</th>
<th>4081 Disc Adhesive</th>
<th>4083 Disc Adhesive</th>
<th>4085 Disc Adhesive</th>
</tr>
</thead>
<tbody>
<tr>
<td>74-98-6</td>
<td>Propane</td>
<td>1000 PPM</td>
<td>760.0</td>
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<td></td>
<td>14</td>
<td></td>
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</tr>
<tr>
<td>75-28-5</td>
<td>2-Methylpropane</td>
<td>Not Established</td>
<td>760.0</td>
<td></td>
<td></td>
<td>6</td>
<td></td>
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<tr>
<td>110-54-3</td>
<td>§ Hexane</td>
<td>50</td>
<td>127.0</td>
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<td></td>
<td>37</td>
<td>21</td>
<td>55</td>
<td>16</td>
<td>32</td>
<td>29</td>
<td></td>
<td>65</td>
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<tr>
<td>107-83-5</td>
<td>§ Isohexane Isomers.</td>
<td>50</td>
<td>250.0</td>
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<td></td>
<td>37</td>
<td>1</td>
<td>3</td>
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<td>2</td>
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<td>20</td>
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<tr>
<td>67472-89-8</td>
<td>Lt. Aliphatic Hydrocarbon Solvent</td>
<td>100</td>
<td>53.0</td>
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<td></td>
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<tr>
<td>75-09-2</td>
<td>§ Methylene Chloride.</td>
<td>50</td>
<td>420.0</td>
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<tr>
<td>108-88-3</td>
<td>§ Toluene</td>
<td>50</td>
<td>22.0</td>
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<td>5</td>
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<td>1330-20-7</td>
<td>§ Xylene</td>
<td>100</td>
<td>5.9</td>
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<tr>
<td>67-64-1</td>
<td>Acetone</td>
<td>750</td>
<td>180.0</td>
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<td>28</td>
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<tr>
<td>7631-86-9</td>
<td>Amorphous Silica.</td>
<td>10</td>
<td>6 Mg/M3 as Dust</td>
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<td></td>
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</tr>
<tr>
<td>1332-58-7</td>
<td>Kaolin</td>
<td>2</td>
<td>5 Mg/M3 as Resp. Dust</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<td>9</td>
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</tbody>
</table>

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

Section III — PHYSICAL DATA

<table>
<thead>
<tr>
<th>PRODUCT WEIGHT — See TABLE</th>
<th>SOLUBILITY IN WATER — Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIFIC GRAVITY 0.759-1.0</td>
<td>VAPOR DENSITY — Heavier than Air</td>
</tr>
<tr>
<td>BOILING RANGE –60°-292 °F</td>
<td>MELTING POINT — Not Applicable</td>
</tr>
<tr>
<td>VOLATILE VOLUME – &gt;50 %</td>
<td></td>
</tr>
</tbody>
</table>

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION FLASH POINT See TABLE LEL 1.0 UEL 12.8

KED 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. 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 exposure to solvents 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

VENTILATION: Allspay Adhesives must be used only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

WASTE DISPOSAL METHOD
Waste from these products may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) or 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

To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet. Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Container, NAPA 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 Adhesives:

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.

SPECIAL PROTECTION
Wear safety spectacles with unperforated sideshields.

Section IX — PRECAUTIONS

DOL STORAGE CATEGORY — See TABLE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

IF INHALED: If affected, remove from exposure. Keep away from FLAMMABLE 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.

Container, NAPA 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 Adhesives:

Keep container closed when not in use. Transfer only to approved containers with complete new 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: 4032, 4033, 4041, 4045, 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.