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DIVISION: AUTOMOTIVE TRADES DIVISION
TRADE NAME: [3M Throwing Disc Adhesive, Type II, P/N 08051]
3M ID NUMBER/U.P.C.: 60-9800-2705-0 00-51135-08051-1 62-4487-2608-3 00-51135-08051-1

ISSUED: AUGUST 23, 1996
SUPERSEDES: MAY 30, 1996
DOCUMENT: 10-5266-1

<table>
<thead>
<tr>
<th>1. INGREDIENT</th>
<th>CAS. NO.</th>
<th>PERCENT</th>
</tr>
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<tbody>
<tr>
<td>HEXANE</td>
<td>110-54-3</td>
<td>30.0 - 50.0</td>
</tr>
<tr>
<td>OTHER HEXANE ISOMERS</td>
<td>Unknown</td>
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<td>BETA-PINENE, ALPHA-PINENE</td>
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<td>DIPENTENE, BETA-PHELLENDRENE</td>
<td></td>
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<td>POLYMER</td>
<td>68240-09-5</td>
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<td>POLYSOPRENE</td>
<td>9003-31-0</td>
<td>7.0 - 13.0</td>
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<td>65997-13-9</td>
<td>3.0 - 7.0</td>
</tr>
<tr>
<td>KAOLIN</td>
<td>1332-50-7</td>
<td>1.0 - 5.0</td>
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</table>

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR PART 372:
HEXANE

<table>
<thead>
<tr>
<th>2. PHYSICAL DATA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT</td>
<td>148.00 F (hexane)</td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>12.6500 mmHg</td>
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<tr>
<td>VAPOR DENSITY</td>
<td>2.97 Air = 1</td>
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<tr>
<td>EVAPORATION RATE</td>
<td>1.90 Ether = 1</td>
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<tr>
<td>SOLUBILITY IN WATER</td>
<td>Very slight</td>
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<tr>
<td>SP. GRAVITY</td>
<td>0.800 Water = 1</td>
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<tr>
<td>PERCENT VOLATILE</td>
<td>70 % by wt</td>
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<tr>
<td>pH</td>
<td>N/A</td>
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<tr>
<td>VISCOSITY</td>
<td>3425.0 centistokes</td>
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<td>MELTING POINT</td>
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<tr>
<td>APPEARANCE AND ODOR</td>
<td>Liquid, amber, hexane odor</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>3. FIRE AND EXPLOSION HAZARD DATA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FLASH POINT</td>
<td>-10.00 F T.C.C.</td>
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</tbody>
</table>

Abbreviations: N/D - Not Determined N/A - Not Applicable
3. FIRE AND EXPLOSION HAZARD DATA (continued)

FLAMMABLE LIMITS - LEL: .... 1.20 % by vol
FLAMMABLE LIMITS - UEL: .... 6.90 % by vol
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
Carbon dioxide, Dry chemical, Foam
SPECIAL FIRE FIGHTING PROCEDURES:
Wear full protective clothing, including helmet, self-contained,
positive pressure or pressure demand breathing apparatus, bunker coat
and pants, bands around arms, waist and legs, face mask, and
protective covering for exposed areas of the head.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Closed containers exposed to heat from fire may build pressure and
explode. Vapors may travel long distances along the ground or floor
to an ignition source and flash back.
NFPA HAZARD CODES: HEALTH: 2 FIRE: 3 REACTIVITY: 0
UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
Not applicable.
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide and Carbon Dioxide, Oxides of Sulfur, Formaldehyde,
Toxic Vapors, Gases or Particulates.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Refer to other sections of this MSDS for information regarding
physical and health hazards, respiratory protection, ventilation, and
personal protective equipment. In the U.S.A., call (612) 733-1110 or
(612) 733-6100 for 24-hour spill assistance. Extinguish all ignition
sources. Collect using non-sparking tools. Place in a U.S. DOT-
approved container.

RECOMMENDED DISPOSAL:
Incinerate in a permitted hazardous waste incinerator in the presence
of a combustible material.

ENVIRONMENTAL DATA:
Not determined.

REGULATORY INFORMATION:
Volatile Organic Compounds: 70 % by wt.
Volatile Organic Compounds: 4.67 lb/gal calculated per SCAQMD rule
443.1.
Volatile Organic Compounds: 560 gms/liter calculated per SCAQMD rule
443.1.
VOC Less H20 & Exempt Solvents: 560 gms/liter calculated per SCAQMD

Abbreviations: N/D - Not Determined  N/A - Not Applicable
5. ENVIRONMENTAL INFORMATION (continued)

rule 443.1.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number: D001 (Ignitable)

EPCRA HAZARD CLASS:
FIRE HAZARD: Yes PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:
Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:
Flush skin with large amounts of water. If irritation persists, get medical attention.

INHALATION:
Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

IF SWALLOWED:
If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:
Avoid eye contact. Wear vented goggles. Wear safety glasses with side shields.

SKIN PROTECTION:
Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: nitrile rubber, polyethylene/ethylene vinyl alcohol, polychloroprene, polyethylene/polyethylene terephthalate, polyethylene/polyethylene terephthalate (Teflon), fluoroelastomer (Viton).

VENTILATION PROTECTION:
Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

RESPIRATORY PROTECTION:
Avoid prolonged breathing of vapors.

PREVENTION OF ACCIDENTAL INGESTION:
Do not ingest.

RECOMMENDED STORAGE:
Keep container closed when not in use. Keep out of the reach of

Abbreviations: N/D - Not Determined N/A - Not Applicable
7. PRECAUTIONARY INFORMATION (continued)

children.

FIRE AND EXPLOSION AVOIDANCE:
Keep container tightly closed. Keep away from heat, sparks, open flame, and other sources of ignition. Extremely flammable liquid and vapor.

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>VALUE</th>
<th>UNIT</th>
<th>TYPE AUTH</th>
<th>SKIN</th>
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<tbody>
<tr>
<td>HEXANE</td>
<td>50</td>
<td>ppm</td>
<td>TWA</td>
<td>ACGIH</td>
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<tr>
<td>HEXANE</td>
<td>50</td>
<td>ppm</td>
<td>TWA</td>
<td>OSHA</td>
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<td>OTHER HEXANE ISOMERS</td>
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<tr>
<td>POLYMER</td>
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<td>NONE</td>
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</tr>
<tr>
<td>POLYISOPRENE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
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<tr>
<td>GLYCEROL ESTER OF HYDROGENATED</td>
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<td>None</td>
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<tr>
<td>ROSIN</td>
<td>2</td>
<td>mg/m³</td>
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<td>ACGIH</td>
</tr>
<tr>
<td>KAOLIN</td>
<td>10</td>
<td>mg/m³</td>
<td>TWA</td>
<td>OSHA</td>
</tr>
</tbody>
</table>

*SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:
- ACGIH: American Conference of Governmental Industrial Hygienists
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level G
- OSHA: Occupational Safety and Health Administration
- N/A: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:
Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:
Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

May be absorbed through the skin in harmful amounts.

INHALATION:
Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time.

Abbreviations: N/D - Not Determined  N/A - Not Applicable
8. HEALTH HAZARD DATA (continued)

slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Peripheral Neuropathy: signs/symptoms can include tingling of extremities, incoordination, numbness, weakness and tremors.

IF SWALLOWED:
Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions.

Aspiration Pneumonitis: signs/symptoms can include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

SECTION CHANGE DATES

<table>
<thead>
<tr>
<th>HEADING</th>
<th>SECTION CHANGED SINCE MAY 30, 1996 ISSUE</th>
</tr>
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</table>

Abbreviations: N/D - Not Determined  N/A - Not Applicable
MSDS: 3M Feathering Disc Adhesive, Type II, P/N 08051
AUGUST 23, 1996

SECTION CHANGE DATES

Abbreviations: N/D - Not Determined  N/A - Not Applicable

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