MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>Marvel Mystery Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT CODE</td>
<td>MM003, MM007, MM08, MM010, MM011, MM012R, MM013R, MM014R, MM015, MM016, MM017, MM018, MM613</td>
</tr>
<tr>
<td>CHEMICAL FAMILY</td>
<td>Petroleum Distillates</td>
</tr>
<tr>
<td>CHEMICAL NAME</td>
<td>Complex Mixture of Hydrocarbons</td>
</tr>
<tr>
<td>FORMULA</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

MANUFACTURER

Marvel Oil Company, Inc
625 Willowbrook Centre Parkway
Willowbrook, IL 60527
Phone: 630-455-3866
Fax: 630-455-3868

EMERGENCY TELEPHONE NUMBERS

Transportation: CHEMTREC: 800-424-9300
Medical: ROCKY MTN POISON CTR: 800-332-3073

2. POSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NUMBER</th>
<th>CONCENTRATION (wt %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthenic Hydrocarbons</td>
<td>64742-52-5</td>
<td>70 – 80</td>
</tr>
<tr>
<td>Mineral Spirits</td>
<td>08052-41-3</td>
<td>20 – 30</td>
</tr>
<tr>
<td>Chlorinrated Hydrocarbons</td>
<td>00095-50-1</td>
<td>0 – 1</td>
</tr>
</tbody>
</table>

EXPOSE LIMITS 8 hrs. TWA(ppm)

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthenic Hydrocarbons</td>
<td>5 as oil mist</td>
<td>5 as oil mist</td>
</tr>
<tr>
<td>Mineral Spirits</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Chlorinrated Hydrocarbons</td>
<td>25</td>
<td>25</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

INHALATION: Can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.

INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration into lungs can cause pneumonitis which can be fatal.

SKIN CONTACT: Prolonged or repeated contact can cause moderated irritation, defatting or dermatitis.
EYE CONTACT: Can cause severe irritation, redness, tearing or blurred vision.

4. FIRST AID MEASURES

EYE: Flush with large amounts of water, lifting upper and lower eyelids occasionally. Get medical attention.

SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder before re-use.

INHALATION: Remove person to fresh air. If breathing difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet. Call a physician.

INGESTION: Do not induce vomiting. Keep person quiet and warm. Get medical attention. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.

5. FIRE FIGHTING MEASURES

FLASH POINT: 128 °F (53 °C) TCC

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full facepiece operated with positive pressure-demand when fighting large fires.

6. ACCIDENTIAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Ventilate area. Remove sources of ignition. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Absorb small amounts on inert material for disposal.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE (MIN./MAX.): -40 °F (-40 °C)/ 120 °F (49 C)

SHELF LIFE: 3 years minimum when the original container is kept tightly closed and properly stored.

SPECIAL SENSITIVITY: None.

HANDLING AND STORAGE PRECAUTIONS: Empty containers may be dangerous since fumes may still exist. Observe precautions given for this product as stated in this document.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION REQUIREMENTS: Splash goggles.

SKIN PROTECTION REQUIREMENTS: Wear chemically resistant gloves.

RESPIRATOR/VENTILATION REQUIREMENTS: Provide sufficient ventilation to avoid exposure levels above the established TLV’s.

EXPOSURE LIMITS: Not established for product as whole.

<table>
<thead>
<tr>
<th>Material</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Spirits</td>
<td>100 ppm TWA</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Oil Mist</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: Thin liquid
COLOR: Red
ODOR: Wintergreen
BOILING POINT: Not determined
MELT / FREEZE POINT: -60 °F (-51 °C)
PH: Not applicable
SOLUBILITY IN WATER: Insoluble
SPECIFIC GRAVITY: 0.876 @ 60 °F (15.6 °C)
% VOLATILE BY WEIGHT: 25 %
VAPOR PRESSURE: Not determined
VAPOR DENSITY: Not determined

10. REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITIES: Strong oxidizing agents.
DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and hydrocarbons.

11. TOXICOLOGICAL INFORMATION

ACUTE INHALATION: Aspiration into lungs can cause pneumonitis which can be fatal.
CHRONIC INHALATION: Not determined.
ACUTE SKIN CONTACT: Prolonged or repeated contact can cause moderate irritation, defatting or dermatitis.
CHRONIC SKIN CONTACT: Not determined.
ACUTE EYE CONTACT: Can cause severe irritation, redness, tearing or blurred vision.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Ignitable hazardous waste, EPA Hazardous Waste Number D001

WASTE DISPOSAL METHOD: Dispose of product in accordance with all local, state and federal laws and regulations.
14. TRANSPORT INFORMATION

DOT INFORMATION:

PROPER SHIPPING NAME: Non Bulk Not regulated
                     Bulk Petroleum distillates, n.o.s.

TECHNICAL SHIPPING NAME: Fuel and oil additive

HAZARD CLASS: Non Bulk ORM-D
               Bulk Class 3

UN NUMBER: UN 1268

PRODUCT RQ (lbs): None

LABEL: Non Bulk ORM-D
        Bulk Flammable Liquid

PLACARD: Non Bulk None
          Bulk Flammable Liquid

FREIGHT CLASS BULK: PG III

FREIGHT CLASS PACKAGE: None

PRODUCT LABEL None

15. REGULATORY INFORMATION

TSCA STATUS: All ingredients listed.

CERCLA REPORTABLE QUANTITY: None

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES None

SECTION 311/312 HAZARD CATEGORIES

Acute Health Yes
Chronic Health Yes
Fire Yes
Reactive No
Sudden Release of Pressure No

SECTION 313

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ortho-dichlorobenzene</td>
<td>00095-50-1</td>
<td>0 – 0.25 %</td>
</tr>
</tbody>
</table>

RCRA STATUS: If discarded in its purchased form, this product would be an ignitable waste with an EPA Hazardous Waste Number of D001. However, under RCRA, it is the responsibility of the product
user to determine at the time of disposal, whether a material containing the product should be classified as a hazardous waste. (40CFR261.20-24)

**CANADIAN STATUS:** All materials contained in this product are listed on the Canadian Domestic Substances List.

**EUROPEAN UNION:** All materials contained in this product are listed on EINECS.

**STATE REGULATORY INFORMATION**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<table>
<thead>
<tr>
<th>COMPONENT/ CAS NUMBER</th>
<th>CONCENTRATION</th>
<th>STATE CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-dichlorobenzene</td>
<td>less than 150 ppm</td>
<td>CA</td>
</tr>
<tr>
<td>00106-46-7</td>
<td></td>
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</tr>
</tbody>
</table>

CA = Material known to the state of California to cause cancer and/or birth defects. (California Proposition 65).

**16. OTHER INFORMATION**

<table>
<thead>
<tr>
<th>HMIS CLASSIFICATION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>PPI</td>
<td>B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NFPA RATING</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Fire</td>
<td>2</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Special</td>
<td>None</td>
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</table>

**REASON FOR ISSUE**

Review and update issue date

**PREPARED BY**

Richard P. Kelly

**TITLE**

Technical Manager

**APPROVAL DATE**

June 04, 2009

**SUPERCEDES DATE**

June 29, 2006

**REVISION NUMBER**

#08

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