

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|-----------------|---|
| PRODUCT NAME | Marvel Mystery Oil |
| PRODUCT CODE | MM003, MM007, MM08, MM010, MM011, MM012R, MM12R, MM013R, MM13R, MM014R, MM14R, MM015, MM016, MM017, MM018, MM613, MM005 |
| CHEMICAL FAMILY | Petroleum Distillates |
| CHEMICAL NAME | Complex Mixture of Hydrocarbons |
| FORMULA | Mixture |

MANUFACTURER

Marvel Oil Company, Inc
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Willowbrook, IL 60527
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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

| COMPONENT | CAS NUMBER | CONCENTRATION (wt %) |
|--------------------------|-------------------|-----------------------------|
| Naphthenic Hydrocarbons | 64742-52-5 | 70 – 80 |
| Mineral Spirits | 08052-41-3 | 20 – 30 |
| Chlorinated Hydrocarbons | 00095-50-1 | 0 – 1 |

EXPOSURE LIMITS 8 hrs. TWA(ppm)

| | <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|--------------------------|-----------------|------------------|
| Naphthenic Hydrocarbons | 5 as oil mist | 5 as oil mist |
| Mineral Spirits | 100 | 100 |
| Chlorinated Hydrocarbons | 25 | 25 |

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. **ACCIDENTAL 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: 7 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.

| | | |
|-----------------|-------|---------------------|
| Mineral Spirits | NIOSH | 100 ppm TWA |
| Oil Mist | OSHA | 5 mg/m ³ |

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 Consumer Comodity
Bulk Petroleum distillates, n.o.s.

TECHNICAL SHIPPING NAME: Fuel and oil additive

HAZARD CLASS: Non Bulk Class 3, Flammable Liquid
Bulk Class 3, Flammable Liquid

UN NUMBER: UN 1268

PRODUCT RQ (lbs): None

LABEL: Non Bulk Limited Quantity – PG-III with inner packaging not over 5.0 L(1.3 Gal) and packed in a strong outer package
Bulk 3, Flammable Liquid, n.o.s., Petroleum Distillates, UN1263

PLACARD: Non Bulk Limited Quantity
Bulk 3, Flammable Liquid, n.o.s., Petroleum Distillates, UN1263

FREIGHT CLASS BULK: PG III

FREIGHT CLASS PACKAGE: PG-III

PRODUCT LABEL **Danger:** Harmful or fatal if Swallowed. Combustible. See Back.

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

| <u>CHEMICAL NAME</u> | <u>CAS NUMBER</u> | <u>CONCENTRATION</u> |
|-----------------------|-------------------|----------------------|
| Ortho-dichlorobenzene | 00095-50-1 | 0 – 0.25 % |

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.

COMPONENT/

CAS NUMBER

p-dichlorobenzene

CONCENTRATION

less than 150 ppm

STATE CODE

CA 00106-46-7

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

16. OTHER INFORMATION

HMIS CLASSIFICATION

Health 2

Flammability 2

Reactivity 0

PPI B

NFPA RATING

Health 2

Fire 2

Reactivity 0

Special None

REASON FOR ISSUE

Limited Quantity Conversion

PREPARED BY

James P. Heidel

TITLE

Technical Director

APPROVAL DATE

December 27, 2012

SUPERCEDES DATE

July 16, 2012

REVISION NUMBER

#10

This information is to the best of Marvel Oil Company's knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

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