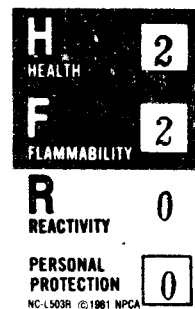


MATERIAL SAFETY DATA SHEET OF MARVEL MYSTERY OIL

Marvel Oil Company Inc.
331 North Main Street
Port Chester, NY 10573
Emergency Telephone No.
(914) 937-4000
Date Issued: 05/30/95

HAZARD RATING
4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant



PRODUCT IDENTIFICATION

PRODUCT NAME: Marvel Mystery Oil
CHEMICAL NAME: Complex mixture of hydrocarbons
MOLECULAR FORMULA: Mixture
SYNONYMS:
CHEMICAL FAMILY: Aliphatic and Aromatic Hydrocarbons

HAZARDOUS INGREDIENTS

COMPONENTS: If present, IARC, NTP and OSHA carcinogens and chemicals subject to the reporting requirements of SARA Title III Section 313 are identified in this section.

Petroleum Lubricating Oil: CAS Reg. No. 64741-96-4 and 64742-63-8, less than 75%, TLV 5ppm (oil mist), LD₅₀ 5g/kg Oral Rat

Mineral Spirits: CAS Reg. No. 8052-41-3, less than 30%, TLV 100ppm.

No other toxic chemical is present greater than 1.0% and 0.1% that are known carcinogen.

PHYSICAL PROPERTIES

BOILING POINT:	172°C	MELTING POINT:	NA
SPECIFIC GRAVITY:	0.830 @ 25°C	VAPOR PRESSURE:	5 mmHg @ 25°C
SOLUBILITY IN WATER:	Not miscible	pH (1:1 H ₂ O):	6.3
VISCOSITY:	19 centistokes @ 25°C		

APPEARANCE & ODOR: Reddish viscous liquid with Hydrocarbon odor.

FIRE AND EXPLOSION DATA

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OF MARVEL MYSTERY OIL**

FLASH POINT: 79°C (174°F) FLAMMABILITY LIMITS: Lower-0.9%, Upper-7.0%
EXTINGUISHING MEDIA: Foam, dry chemical or carbon dioxide
SPECIAL FIRE FIGHTING PROCEDURE: Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection to personnel attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products.

UNUSUAL FIRE & EXPLOSION HAZARDS: Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point.

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 100ppm, 8 hour time weighted average
EFFECTS OF OVEREXPOSURE: Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation or dermatitis. Product contacting the eyes may cause eye irritation. Product has a low order of acute oral and dermal toxicity, but minute amounts of aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury.

EMERGENCY AND FIRST AID PROCEDURE: If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available. If over exposure to oil mist, remove from further exposure until excessive oil mist condition subsides. If ingested, DO NOT induce vomiting; call a physician.

CHRONIC EFFECT(S) OF OVEREXPOSURE: None recognized

REACTIVITY DATA

STABILITY: stable
INCOMPATIBLE/AVOID CONTACT WITH: strong oxidants
HAZARDOUS DECOMPOSITION PRODUCT: carbon dioxide/monoxide
HAZARDOUS POLYMERIZATION: will not occur
CONDITION TO AVOID: skin contact

**MATERIAL SAFETY DATA SHEET
OF MARVEL MYSTERY OIL**

SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Recover free product. Add sand, earth, or other suitable absorbent to spill area. Minimize skin contact. Keep product out of sewers and watercourses by diking or impounding.

WASTE DISPOSAL METHOD: Preferred method is incineration. Dispose of in accordance with all Local, State, and Federal regulations.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Use supplied-air respiratory protection in confined or enclosed space, if needed.

VENTILATION:

LOCAL EXHAUST: To capture vapor, mist or fumes if necessary.

MECHANICAL (GENERAL): Acceptable

SPECIAL: No smoking or flames.

OTHER: None

PROTECTIVE GLOVES: Hydrocarbon resistant

EYE PROTECTION: Splash goggles

OTHER PROTECTIVE EQUIPMENT: Apron or impervious clothing if needed.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants.

OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin.

REQUIREMENTS FOR TRANSPORTATION

PROPER SHIPPING NAME: Marvel Mystery Oil

HAZARDOUS CLASSIFICATION: Not DOT regulated.

IDENTIFICATION NUMBER: UN-1270, UN-1271

REPORTABLE QUANTITY: No Reportable Quantity for product or any constituent greater than 1% or 0.1% of carcinogen.

ADDITIONAL LABELING: Combustible Liquid

