

MARVEL OIL COMPANY  
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(708) 563-3766

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

PRODUCT NAME: Marvel Air Tool Oil  
PRODUCT CODE: MM080,085,086,088,089  
REVISION #: # 1  
EFFECTIVE DATE: November 1, 1999

CHEMICAL NAME : Complex mixture of hydrocarbons  
FORMULA: Mixture  
SYNONYMS: NA  
CHEMICAL FAMILY: Petroleum Distillates

CAS #: NA  
CAS NAME: NA

HMIS:HEALTH: 2 FIRE:2 REACTIVITY: 0 PE: B

HAZARD CLASSIFICATION: Petroleum products, n.o.s, Combustible, PG III,  
UN 1268  
PPING NAME: Petroleum oils and related products  
IDENTIFICATION #: NMFC 155250

2. HAZARDOUS INGREDIENTS

| <u>MATERIAL</u>               | <u>CAS #</u> | <u>TLV (UNITS/SOURCE)</u>                        | <u>HAZARD</u>                                    |
|-------------------------------|--------------|--|--|
| Mineral Spirits               | 08052-41-3   | 100 ppm (NIOSH)<br>8 hr/500 ppm<br>(STEL) 15 min | Eyes, skin<br>ingestion,<br>inhalation,<br>fire. |
| Napthenic Hydro-<br>Carbons   | 64742-52-5   | 5 mg/m3 TWA (OSHA)                               | Eyes, skin,<br>ingestion,<br>inhalation          |
| Chlorinated Hydro-<br>Carbons | 00095-50-1   | 25 ppm (ACGIH) (TWA)<br>50 ppm (ACGIH) (STEL)    | Eyes, skin,<br>ingestion,<br>inhalation.         |

## 3. PHYSICAL DATA

BOILING POINT, 760 mm Hg: 172 ° C  
 SPECIFIC GRAVITY @ 60 F.: 0.873  
 VAPOR PRESSURE @ 60 F.: 5 mm @ 25 ° C  
 VAPOR DENSITY (AIR=1): ND  
 SOLUBILITY IN WATER, WT % : Insoluble  
 PERCENT VOLATILE, VOL % : 25 %  
 EVAPORATION RATE: ND  
 APPEARANCE AND ODOR: Clear amber liquid  
 MELTING POINT: NA  
 pH (1:1 H2O): ND  
 VISCOSITY: 10 cSt @ 40 ° C

## 4. HEALTH HAZARD DATA

TLV & SOURCE: Mineral Spirits 100 ppm - 8 hr. (TWA-NIOSH) / 500 ppm - 15 min. (STEL)  
 Oil mist of 5 mg/M3 or less

## ACUTE EFFECTS OF OVEREXPOSURE:

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

SKIN ABSORPTION: Not known.

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

SKIN CONTACT: Prolonged or repeated contact can cause moderated irritation, defatting or dermatitis.

EYE CONTACT: Can cause severe irritation, redness, tearing or blurred vision.

CHRONIC EFFECTS OF OVEREXPOSURE:

Not known.

## EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING: 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.

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.

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

CARCINOGENICITY: Not known to be carcinogenic.

NOTES TO PHYSICIAN: None.

#### 5. FIRE & EXPLOSION HAZARD DATA

FLASH POINT & METHOD: 142 F (TCC)

FLAMMABLE LIMITS IN AIR, % BY VOLUME: 0.9 % LOWER 7.0 % UPPER

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 fire.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors heavier than air and may travel along ground to ignition sources distant from fire area.

#### 6. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide and hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Strong oxidizing agents.

7. SPILL & LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

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.

WASTE DISPOSAL METHOD:

Dispose of product in accordance with all local, state and federal laws and regulations.

8. PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): If exposure levels exceed those established, use approved air supplied respirator in absence of proper environmental controls.

VENTILATION: Provide sufficient ventilation to avoid exposure levels above established TLV's.

PROTECTIVE GLOVES: Wear chemically resistant gloves.

EYE PROTECTION: Splash goggles.

OTHER PROTECTIVE EQUIPMENT: Wear impervious clothing to avoid contact with product.

9. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

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

RECAUTIONS DURING USE: None.

## 10. ADDITIONAL INFORMATION

REGULATORY INFORMATION:

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- \* Immediate Health
- \* Delayed Health
- \* Fire Hazard

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- \* None

CAL. PROP 65: This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects:

< 150 ppm p-dichlorobenzene CAS 00106-46-7

WHMIS (Canada): ND

REASON FOR REVISION: New format.

PREPARED BY: Richard P. Kelly

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 user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

NA = Not applicable

ND = Not determined

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