MSDS Number: M7700 \* \* \* \* \* Effective Date: 05/19/08 \* \* \* \* \* Supercedes: 08/18/05

Material Safety Data Sheet

From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865

Mallinckrodt CHEMICALS

24 Hour Emergency Telephone: 908-859-2151 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National ROTE: GHEMIREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance

# MINERAL OIL

## 1. Product Identification

Synonyms: Paraffin oil; liquid petrolatum; White Mineral Oil; Nujol

**CAS No.:** 8012-95-1

Molecular Weight: Not applicable. Chemical Formula: Not applicable.

**Product Codes:** J.T. Baker: 2705

Mallinckrodt: 6357, 6358

# 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Oil, Mineral	8012-95-1	90 - 100%	Yes

## 3. Hazards Identification

**Emergency Overview** 

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. COMBUSTIBLE LIQUID AND VAPOR.

 $\textbf{SAF-T-DATA}^{(tm)} \text{ Ratings (Provided here for your convenience)}$ 

Health Rating: 2 - Moderate Flammability Rating: 1 - Slight Reactivity Rating: 0 - None Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Green (General Storage)

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#### **Potential Health Effects**

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#### **Inhalation:**

Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Inhalation of mist or vapor may produce aspiration pneumonia.

#### **Ingestion:**

Material is a cathartic and can cause serious diarrhea. Nausea and vomiting may also occur and possibly abdominal cramping. Aspiration of mineral oil into the lungs can cause chemical pneumonia.

#### **Skin Contact:**

Prolonged contact may cause irritation; occasionally dermatitis due to hypersensitivity occurs.

#### **Eye Contact:**

Mists or fumes can irritate the eyes. Can cause discomfort similar to motor oil.

#### **Chronic Exposure:**

Prolonged or repeated skin exposure may cause dermatitis. Highly refined mineral oils are not classified as human carcinogens. However, related forms (untreated and mildly-treated oils) are listed as human carcinogens by both NTP and IARC.

### **Aggravation of Pre-existing Conditions:**

Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance.

## 4. First Aid Measures

#### **Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### **Ingestion:**

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately. Aspiration hazard.

#### **Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

### **Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

# 5. Fire Fighting Measures

## Fire:

Flash point: 135C (275F) CC

Autoignition temperature: 260 - 370C (500 - 698F)

Combustible Liquid and Vapor!

### **Explosion:**

Not considered to be an explosion hazard.

## Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or carbon dioxide. Water or foam may cause frothing. Do not allow water runoff to enter sewers or waterways.

#### **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## 6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

## 7. Handling and Storage

Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Store separately from reactive or combustible materials, and out of direct sunlight. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

## 8. Exposure Controls/Personal Protection

## **Airborne Exposure Limits:**

For Mineral Oil; Misted1:

-OSHA Permissible Exposure Limit (PEL): 5 mg/m3

-ACGIH Threshold Limit Value (TLV):

5 mg/m3 (TWA) 10 mg/m3 (STEL)

(1as sampled by method that does not collect vapor)

(1Refers to airborne mist of mineral oil)

#### **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation*, *A Manual of Recommended Practices*, most recent edition, for details.

### **Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type P95 or R95 filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type P100 or R100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. Please note that N filters are not recommended for this material. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

## **Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

#### **Eye Protection:**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

# 9. Physical and Chemical Properties

Appearance:

Clear oily liquid.

Odor:

Odorless.

**Solubility:** 

Insoluble in water.

**Specific Gravity:** 

Heavy: 0.845 to 0.905 Light: 0.818 to 0.880

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

**Boiling Point:** 

260 - 330C (500 - 626F)

**Melting Point:** 

No information found.

**Vapor Density (Air=1):** 

ca. 9

Vapor Pressure (mm Hg):

< 0.5

**Evaporation Rate (BuAc=1):** 

No information found.

# 10. Stability and Reactivity

### **Stability:**

Stable under ordinary conditions of use and storage. May solidify at room temperature.

#### **Hazardous Decomposition Products:**

Carbon dioxide and carbon monoxide may form when heated to decomposition.

### **Hazardous Polymerization:**

Will not occur.

## **Incompatibilities:**

Strong oxidizers.

**Conditions to Avoid:** 

Heat, flames, ignition sources and incompatibles.

# 11. Toxicological Information

Irritation Data, rabbit (Std Draize): skin= 100 mg/24H, mild; eye= 500 mg, moderate. Investigated as a tumorigen. Oral rat LD50: 22 gm/kg

# 12. Ecological Information

#### **Environmental Fate:**

No information found.

**Environmental Toxicity:** 

No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Not regulated.

## 15. Regulatory Information

```
-----\Chemical Inventory Status - Part 1\-----
 Ingredient
                                   TSCA EC Japan Australia
                                     Yes Yes No
 Oil, Mineral (8012-95-1)
 -----\Chemical Inventory Status - Part 2\-----
                                          --Canada--
 Ingredient
                                   Korea DSL NDSL Phil.
 Oil, Mineral (8012-95-1)
                                     Yes Yes No
 -----\Federal, State & International Regulations - Part 1\-----
                                -SARA 302- -----SARA 313-----
 Ingredient
                                RQ TPQ
                                          List Chemical Catg.
 Oil, Mineral (8012-95-1)
 -----\Federal, State & International Regulations - Part 2\-----
                                        -RCRA- -TSCA-
 Ingredient
                                No.
                                        261.33
                                                8(d)
                                        -----
 Oil, Mineral (8012-95-1)
Chemical Weapons Convention: No TSCA 12(b): No
                                        CDTA: No
SARA 311/312: Acute: Yes Chronic: No Fire: Yes Pressure: No
Reactivity: No (Pure / Liquid)
```

Australian Hazchem Code: None allocated.

**Poison Schedule: S5** 

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

NFPA Ratings: Health: 0 Flammability: 1 Reactivity: 0

**Label Hazard Warning:** 

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. COMBUSTIBLE LIQUID AND VAPOR.

#### **Label Precautions:**

Avoid breathing mist.

Keep container closed.

Use only with adequate ventilation.

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Keep away from heat, sparks and flame.

### **Label First Aid:**

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases, get medical attention.

#### **Product Use:**

Laboratory Reagent.

### **Revision Information:**

No Changes.

**Disclaimer:** 

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