



# Dominion Veterinary Laboratories Limited

Quality Animal Health Pharmaceuticals - Dedicated Service Since 1950

1199 Sanford Street - Winnipeg, Manitoba R3E 3A1

Telephone: (204) 589.7361 / 589.7362 - Fax: (204) 943.9612

Toll Free: 1.800.465.7122 - www.domvet.com

## MATERIAL SAFETY DATA SHEET

### WHITE MINERAL OIL (ALL GRADES)

#### 1. CHEMICAL PRODUCT

WHMIS#: 00069783

Index:

2011 May 25

#### PRODUCT IDENTIFICATION

Product Name: White Mineral Oil (All Grades).

Date of Revision: 2012 May 25

Effective Date:

HCI8923/10B

Chemical Name: Severely Hydrotreated Paraffinic White Mineral Oil.

Synonyms: 7, 21, 35, 55, 70, 90, 200, 210, 220, 350, 550.

Chemical Family: Paraffinic Mineral Oil.

Molecular Formula: Not available.

Product Use: Lubricant. Food additive. Animal feed additive.

#### WHMIS Classification / Symbol:

READ THE ENTIRE MSDS FOR THE COMPLETE HAZARD EVALUATION OF THIS PRODUCT.

Not regulated.

#### *Ingredient CAS# ACGIH TLV % Concentration*

#### 2. COMPOSITION, INFORMATION ON INGREDIENTS (Not Intended As Specifications)

White Mineral Oil 8042-47-5 (5 mg/m<sup>3</sup> (O)) 60 - 100

White Mineral Oil (All Grades) WHMIS Number : 00069783

#### 3. HAZARDS IDENTIFICATION

Low hazard for usual industrial or commercial handling. See "Other Health Effects" Section. Can decompose at high temperatures forming toxic gases. Contents may develop pressure on prolonged exposure to heat.

#### EMERGENCY OVERVIEW:

#### POTENTIAL HEALTH EFFECTS

Vapours or mists, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea and drowsiness. See "Other Health Effects" Section.

#### Inhalation:

This product is non-irritating upon contact. Prolonged, confined (especially under the finger nails, under rings or watch bands) or repeated exposure may cause skin irritation. May cause defatting, drying and cracking of the skin. Prolonged and repeated contact may lead to dermatitis.

#### Skin Contact:

Skin Absorption: Not likely to be absorbed through the skin.

Eye Contact: This product may cause mild, transient irritation.

Ingestion: This product may cause mild gastrointestinal discomfort.



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## 4. FIRST AID MEASURES

### FIRST AID PROCEDURES

If respiratory problems arise, move the victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Obtain medical advice IMMEDIATELY.

#### Inhalation:

Start flushing while removing contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation, redness, or a burning sensation develops and persists, repeat flushing and obtain medical attention.

#### Skin Contact:

Immediately flush eyes thoroughly for 5 minutes with running water. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention.

#### Eye Contact:

Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not convulsing, rinse mouth out and give 1/2 to 1 glass of water to dilute material. DO NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention IMMEDIATELY.

#### Ingestion:

This product contains materials that may cause severe pneumonitis if aspirated. If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage; use endotracheal cuff if available, to prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Give artificial resuscitation and appropriate chemotherapy if respiration is depressed. Medical conditions that may be aggravated by exposure to this product include diseases of the skin, eyes or respiratory tract.

#### Note to Physicians:

Effects (irritancy) on the skin and eyes may be delayed, and damage may occur without the sensation or onset of pain. Strict adherence to first aid measures following any exposure is essential.

Exposure to a large single dose, or repeated small doses of (white) mineral oil by inhalation, aspiration or ingestion leading to aspiration can lead to lipid pneumonia or lipid granuloma. These are low-grade, chronic, localized tissue reactions which are not fatal. Shortness of breath and cough are the most common symptoms. Ingestion is relatively non-toxic unless aspiration occurs. Laxative properties of this product may result in abdominal cramps and diarrhea. This product has a low vapour pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product.

#### Other Health Effects:

## 5. FIRE-FIGHTING MEASURES

### Flashpoint (°C)

### Autolgnition

### Temperature (°C) LEL UEL

### Flammability Limits in Air (%):

129. (3) Not available. 0.9. (3) 7.0. (3)

Flammability Class (WHMIS): Not regulated.

Hazardous Combustion Thermal decomposition products are toxic and may include oxides of carbon and organic vapours.

#### Products:

Do not direct a solid stream of foam into hot, burning pools. This may cause spattering and increase fire intensity. Closed containers exposed to heat may burst. Spilled material may cause floors and contact surfaces to become slippery.

#### Unusual Fire or Explosion

#### Hazards:

Sensitivity to Mechanical Impact: Not expected to be sensitive to mechanical impact.

Rate of Burning: Not available.

Explosive Power: Not available.

Sensitivity to Static Discharge: Not expected to be sensitive to static discharge.

#### EXTINGUISHING MEDIA

Foam. Use carbon dioxide or dry chemical media for small fires. If only water is available, use it in the form of a fog.

#### Fire Extinguishing Media:

#### FIRE FIGHTING INSTRUCTIONS

Isolate materials that are not involved in the fire and protect personnel. The heat from a fire can cause a build-up of pressure inside the containers which may rupture. Cool containers with flooding quantities of water until well after the fire is out. (4) Spilled material may cause floors and contact surfaces to become slippery.



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Instructions to the Fire Fighters:

White Mineral Oil (All Grades).

WHMIS Number : 00069783 Date of Revision: 2010 May 25

Fire Fighting Protective Use self-contained breathing apparatus and protective clothing.

Equipment:

## 6. ACCIDENTAL RELEASE MEASURES

Information in this section is for responding to spills, leaks or releases in order to prevent or minimize the adverse effects on persons, property and the environment. There may be specific reporting requirements associated with spills, leaks or releases, which change from region to region.

In all cases of leak or spill contact vendor at Emergency Number shown on the front page of this MSDS.

Wear protective clothing. Do not use combustible materials such as sawdust as an absorbent. Recover spilled material on non-combustible absorbents, such as sand or vermiculite, and place in covered containers for disposal. Collect product for recovery or disposal. For release to land, or storm water runoff, contain discharge by constructing dykes or applying inert absorbent; for release to water, utilize damming and/or water diversion to minimize the spread of contamination. Ventilate enclosed spaces.

Notify applicable government authority if release is reportable or could adversely affect the environment. Spilled material may cause floors and contact surfaces to become slippery.

Containment and Clean-Up

Procedures:

## 7. HANDLING AND STORAGE

### HANDLING

Use normal "good" industrial hygiene and housekeeping practices. Containers exposed to heat may be under internal pressure. These should be cooled and carefully vented before opening. A face shield and apron should be worn. Vent container frequently, and more often in warm weather, to relieve pressure.

Handling Practices:

Ventilation Requirements: General exhaust is acceptable. Do not use pressure to empty containers.

Use only with adequate ventilation and avoid breathing aerosols ( vapours or mists ). Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Wash contaminated clothing thoroughly before re-use.

Other Precautions:

### STORAGE

Storage Temperature (°C): See below.

Ventilation Requirements: General exhaust is acceptable.

Store in a cool, well-ventilated area. Keep away from heat, sparks and flames. Keep containers closed.

Do not expose sealed containers to temperatures above 40° C.

Storage Requirements:

Special Materials to be Used for Confirm suitability of any material before using.

Packaging or Containers:



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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommendations listed in this section indicate the type of equipment, which will provide protection against overexposure to this product.

Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

### ENGINEERING CONTROLS

General exhaust is acceptable. Local exhaust ventilation preferred. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation. Ventilate low lying areas such as sumps or pits where dense vapours may collect.

Engineering Controls:

### PERSONAL PROTECTIVE

#### EQUIPMENT (PPE)

Safety glasses with side shields are recommended to prevent eye contact. Use chemical safety goggles when there is potential for eye contact. Contact lenses should not be worn when working with this material.

Eye Protection:

Gloves and protective clothing made from nitrile rubber, viton and Silver Shield should be impervious under conditions of use. Prior to use, user should confirm impermeability. Discard contaminated gloves.

Skin Protection:

No specific guidelines available. Respiratory protection should not be necessary unless the material is heated or a mist created. Do not use compressed oxygen in hydrocarbon atmospheres. A NIOSH/MSHA approved air-purifying respirator equipped with organic vapour cartridges for concentrations up to 50 mg/m<sup>3</sup> oil mist. An air-supplied respirator if concentrations are higher or unknown.

Respiratory Protection:

Wear regular work clothing. The use of coveralls is recommended. Locate safety shower and eyewash station close to chemical handling area. Take all precautions to avoid personal contact.

Other Personal Protective

Equipment:



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## EXPOSURE GUIDELINES

### ***SUBSTANCE ACGIH TLV***

#### ***(STEL)***

#### ***OSHA PEL***

#### ***(TWA) (STEL)***

#### ***NIOSH REL***

#### ***(TWA) (STEL)***

White Mineral Oil 10 mg/m<sup>3</sup> 5 mg/m<sup>3</sup> Oil Mist --- 5 mg/m<sup>3</sup> Oil Mist 10 mg/m<sup>3</sup> Oil Mist  
Liquid.

Clear, colourless liquid.

Odourless.

Not available.

> 260.

Not available.

Negligible.

> 1.0.

0.82 - 0.87.

820 - 870 kg/m<sup>3</sup>.

7.5 - 90 cSt (40°C).

Not available.

Not soluble in water. Soluble in hydrocarbons.

Negligible.

Not available.

> 3.5.

Not available.

Physical State:

Appearance:

Odour:

Odour Threshold (ppm):

Boiling Range (°C):

Melting/Freezing Point (°C):

Vapour Pressure (mm Hg at 20° C):

Vapour Density (Air = 1.0):

Relative Density (g/cc):

Bulk Density:

Viscosity:

Evaporation Rate (Butyl Acetate = 1.0):

Solubility:

% Volatile by Volume:

pH:

Coefficient of Water/Oil Distribution:

Volatile Organic Compounds (VOC):



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## 9. PHYSICAL AND CHEMICAL PROPERTIES (Not intended as Specifications)

Flashpoint (°C): 129. (3)

## 10. STABILITY AND REACTIVITY

### CHEMICAL STABILITY

Under Normal Conditions: Stable.

Under Fire Conditions: Flammable. Material will not burn unless preheated.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Formation of oil mist. High temperatures, sparks, open flames and all other sources of ignition.

Materials to Avoid: Oxidizing agents. Lewis or mineral acids. Materials reactive with hydroxyl bearing compounds.

Decomposition or Combustion Thermal decomposition products are toxic and may include oxides of carbon and organic vapours.

Products:

White Mineral Oil (All Grades)

WHMIS Number : 00069783 Date of Revision: 2010 May 25

## 11. TOXICOLOGICAL INFORMATION

Meaningful toxicological test data could not be found for this product.

### TOXICOLOGICAL DATA:

Carcinogenicity Data: The ingredient(s) of this product is (are) not classed as carcinogenic by ACGIH, IARC, OSHA or NTP.

Reproductive Data: No adverse reproductive effects are anticipated.

Mutagenicity Data: No adverse mutagenic effects are anticipated.

Teratogenicity Data: No adverse teratogenic effects are anticipated.

Respiratory / Skin Sensitization None known.

Data:

Synergistic Materials: None known.

Other Studies Relevant to None known.

Material:

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available. May be harmful to aquatic life.

Not readily biodegradable. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

Environmental Fate:

## 13. DISPOSAL CONSIDERATIONS

Deactivating Chemicals: None required.

This information applies to the material as manufactured. Reevaluation of the product may be required by the user at the time of disposal since the product uses, transformations, mixtures and processes may influence waste classification. Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

Waste Disposal Methods:

Safe Handling of Residues: See "Waste Disposal Methods".

Empty containers retain product residue. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. Dispose of waste material at an approved waste incineration facility in accordance with applicable local, provincial and federal regulations.

Disposal of Packaging:

## 14. TRANSPORTATION INFORMATION

### CANADIAN TDG ACT SHIPPING DESCRIPTION:

This product is not regulated by TDG.

Label(s): Not applicable. Placard: Not applicable.

ERAP Index: -----. Exemptions: None known.

### US DOT CLASSIFICATION (49CFR 172.101, 172.102):

This product is not regulated by DOT.

Label(s): Not applicable. Placard: Not applicable.

CERCLA-RQ: Not available. Exemptions: None known.



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## 15. REGULATORY INFORMATION

### CANADA

CEPA - NSNR: This material is included on the DSL under the CEPA.

CEPA - NPRI: Not included.

Controlled Products Regulations Classification (WHMIS):

## 16. OTHER INFORMATION

### REFERENCES

#### USA

Environmental Protection Act: This material is included on the TSCA Inventory.

OSHA HCS (29CFR 1910.1200): Not regulated.

TNeFxFt2A2: : 0 Health, 1 Fire, 0 Reactivity (3)

THeMxItS22: :0 Health, 1 Fire, 0 Reactivity (3)

#### INTERNATIONAL

All components of this product are found on the following inventories: EINECS (European Inventory of Existing Commercial Chemical

Substances), Australia (ACQIN), Korea (ECL).

Not regulated.

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RTECS-Registry of Toxic Effects of Chemical Substances, Canadian Centre for Occupational Health and Safety RTECS database.

1.

Clayton, G.D. and Clayton, F.E., Eds., Patty's Industrial Hygiene and Toxicology, 3rd ed., Vol. IIA,B,C, John Wiley and Sons, New York, 1981.

2.

3. Supplier's Material Safety Data Sheet(s).

4. CHEMINFO chemical profile, Canadian Centre for Occupational Health and Safety, Hamilton, Ontario, Canada.

5. Guide to Occupational Exposure Values, 2008, American Conference of Governmental Industrial Hygienists, Cincinnati, 2008.

6. The British Columbia Drug and Poison Information Centre, Poison Managements Manual, Canadian Pharmaceutical Association, Ottawa, 1981.

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The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Dominion Vet Labs. will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein.

This Material Safety Data Sheet is valid for three years.

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Prepared By: David .Earn \_\_\_\_\_

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