

24 OCT 2006

# Product Information



## UNI 913 WHITE OILS

**UNI 913 White Oils** are white mineral oils for applications comply with the requirements of most pharmacopoeia and food regulations. **UNI 913 White Oils** are almost tasteless and odourless. They have been drastically refined to virtually eliminate polycyclic aromatics (PCA) and are free from fluorescence in daylight.

### APPLICATION:

- ◆ Food packaging material
- ◆ Food processing
- ◆ Pharmaceuticals
- ◆ Cosmetics
- ◆ Industrial skin protectives
- ◆ Veterinary preparations

### PERFORMANCE FEATURES:

- ◆ Extremely high standards of purity
- ◆ Virtually eliminate aromatic hydrocarbons
- ◆ Tasteless and Odourless

### PERFORMANCE SPECIFICATIONS:

**UNI 913 White Oils** comply with the following specifications

US FDA 172.878

178.3620(a)

British Pharmacopoeia Meet requirements

U.S. Pharmacopoeia Meet requirements

### HEALTH & SAFETY:

**UNI 913 White Oils** are unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained. Prolonged or repeated contact with the skin should be avoided. For further guidance on Product Health & Safety refer to the appropriate **UNI** Product Safety Data Sheet. This can be obtained from your own internal Health & Safety focal point.

### TYPICAL PHYSICAL CHARACTERISTICS:

ISO Viscosity Grade	:	7	15	68
Kinematic Viscosity				
@100 °C cSt	:	2.2	3.7	7.7
40 °C cSt	:	7	17.0	71.0
Viscosity Index	:	-	102	60
Density @ 15 °C kg/l	:	0.834	0.850	0.876
Flash Point °C (COC)	:	158	200	220
Pour Point °C	:	-12	-21	-30

Prod code:UNI 913

UNI/913/5/98

Note: The above data is typical and does not constitute a specification.



# Product Information



## Material Safety Data Sheet

### 1. IDENTIFICATION OF THE SUBSTANCE

Product Name:	UNI White Oil
Product Code:	UNI 913
Product Type:	White Oil
Supplier:	Uni-Tech Oil & Chemical Ltd
Address:	Rm. 1802, 18/F., South China Industrial Bldg., 1 Chun Pin Street, Kwai Chung, N.T., Hong Kong SAR.

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Preparation Description:	Highly refined mineral oils	
<u>Component Name</u>	<u>CAS Number</u>	<u>Composition (%)</u>
White Mineral Oil	8042-47-5	100
Dangerous Components / Constituents:	On the basis of available information, the components of this preparation are not expected to impart hazardous properties to this product.	

### 3. HAZARDS IDENTIFICATION

Human Health Hazards:	No specific hazards under normal use conditions. Contains mineral oil for which an exposure limit for oil mist applies. Used lubricant may contain harmful impurities.
Safety Hazards:	Not classified as flammable, but will burn.
Environmental Hazards:	Not readily biodegradable, expected to have a high potential to bioaccumulate.
Other Information:	Not classified as dangerous for supply or conveyance

### 4. First Aid Measures

First Aid – Inhalation:	In the unlikely event of dizziness or nausea, remove casualty to fresh air. If symptoms persist, obtain medical attention.
First Aid – Skin:	Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention. If high pressure injection injuries occur, obtain medical attention immediately.
First Aid – Eye:	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
First Aid – Ingestion:	Wash out mouth with water and obtain medical attention. DO NOT INDUCE VOMITING.
Advice to Physicians:	Treat symptomatically. Aspiration into the lungs may result in chemical pneumonitis. Dermatitis may result from prolonged or repeated exposure.

UNI 913  
Page.1/4



# Product Information

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Lubricants  
Specialist

## 5. Fire Fighting Measures

<b>Specific Hazards:</b>	Combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide, oxides of sulphur, and unidentified organic and inorganic compounds.
<b>Extinguishing Media:</b>	Foam and dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
<b>Unsuitable Extinguishing Media:</b>	Water in a jet.. Use of halon extinguishers should be avoided for environmental reasons.

## 6. Accidental Release Measures

<b>Personal Precautions:</b>	Avoid contact with eyes and excessive contact with skin.
<b>Personal Protection:</b>	Wear impermeable boots and gloves.
<b>Environmental Precautions:</b>	Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Inform local authorities if this cannot be prevented.
<b>Clean-Up Methods-Small Spillage:</b>	Absorb liquid with sand or earth, Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations.
<b>Clean-Up Methods-Large Spillage:</b>	Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Dispose of as for small spills.

## 7. Handling and Storage

<b>Handling:</b>	When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Prevent spillages.
<b>Storage:</b>	Keep in a cool, dry, well-ventilated place. Use properly labelled and containers. Avoid direct sunlight heat sources.
<b>Recommended Materials:</b>	For containers or container linings, use: mild steel or high density polyethylene.
<b>Unsuitable Materials:</b>	For containers or container linings, avoid: PVC.
<b>Other Information:</b>	Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

## 8. Exposure Controls / Personal Protection

<b>Engineering Control Measures:</b>	Use local exhaust ventilation if there is a risk of inhalation of vapours, mists or aerosols.			
<b>Occupational Exposure Standards:</b>	Threshold limit values are given below. Lower exposure limits may apply locally:			
<b>Component Name</b>	<b>Limit Type</b>	<b>Value</b>	<b>Unit</b>	<b>Other Information</b>
Oil mist, mineral	8 - hour TWA	5	mg / m3	ACGIH
	15 - min STEL	10	mg / m3	ACGIH
<b>Hygiene Measures:</b>	Wash hands before eating, drinking, smoking and using the toilet.			
<b>Hand Protection:</b>	PVC or nitrile rubber gloves in industrial applications.			
<b>Eye Protection:</b>	Wear safety glasses or full face shield if splashes are likely to occur.			
<b>Body Protection:</b>	Avoid excessive skin contact in industrial applications. Wear overalls to minimise contamination of personal clothing.			



# Product Information



## 9. Physical and Chemical Properties

Physical State:	Liquid at ambient temperature.
Colour:	Clear, Colourless.
Odour:	Characteristic mineral oil
Initial Boiling Point:	Expected to be above 280°C
Vapour Pressure:	Expected to be less than 0.5 Pa at 20°C
Density:	See Table 1
Kinematic Viscosity:	See Table 1
Vapour Density (air=1) :	Greater than 1
Pour Point:	See Table 1
Flash Point:	See Table 1
Flammability Limit-Lower:	1% v/v
Flammability Limit-Upper	10 % v/v
Auto-ignition Temperature:	Expected to be above 320°C
Solubility in Water:	Negligible

## 10. Stability / Reactivity

Stability:	Stable
Materials to Avoid:	Strong oxidizing agents
Hazardous Decomposition Products:	Hazardous decomposition products are not expected to form during normal storage.

## 11. Toxicological Information

Basic for Assessment:	Toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the toxicology of similar products.
Acute Toxicity-Oral:	LD <sub>50</sub> expected to be above 2000 mg/kg.
Acute Toxicity-Dermal:	LD <sub>50</sub> expected to be above 2000 mg/kg.
Acute Toxicity-Inhalation:	Not considered to be an inhalation hazard under normal conditions of use.
Eye Irritation:	Expected to be slightly irritant.
Skin Irritation:	Expected to be slightly irritant.
Respiratory Irritation:	If mists are inhaled, slight irritation of the respiratory tract may occur.
Skin Sensitization:	Not expected to be a skin sensitizer
(Sub) Chronic Toxicity:	Prolonged exposure at high concentrations has been found to produce adverse effects in rats.
Carcinogenicity:	Product is based on mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Other components are not known to be associated with carcinogenic effects.



# Product Information



## 12. Ecological Information

<b>Basis for Assessment:</b>	Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.
<b>Mobility:</b>	Liquid under most environmental conditions. Floats on water. If it enters soil, It will adsorb to soil particles and will not be mobile.
<b>Persistence/Degradability:</b>	Not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
<b>Bioaccumulation:</b>	Has the potential to bioaccumulate.
<b>Ecotoxicity:</b>	Poorly soluble mixture. Product is expected to be practically non-toxic to aquatic organisms, LC/EC <sub>50</sub> > 100mg/L. May cause physical fouling of aquatic organisms. (LE/EC <sub>50</sub> expressed as the nominal amount of product required to prepare aqueous test extract)

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UNI 913  
Page.4/4