

## SECTION 1. CHEMICAL PRODUCT AND COMPANY NAME

**Hydraulic Oil**  
**Part No. 181434-7**

# Safety Data Sheet

Complies with the OSHA Hazard  
Communication Standard :  
29 CFR 1910 1200

Makita U.S.A., Inc. 14930-C Northam Street La Mirada, CA 90638	Prepared By :	Stan Rodrigues
	Date Revised:	08/11/2014

## EMERGENCY CONTACT INFORMATION

**Telephone Number for Information:** MAKITA: 1-510-657-9881

### Emergency Response

For Chemical Emergency  
Spills, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada 1-800-424-9300

## SECTION 2. HAZARD IDENTIFICATION

<b>Human Health Hazards:</b>	No specific hazards under normal use conditions. Contains mineral oil for which an exposure limit for oil mist applies. Prolonged or repeated exposure may give rise to dermatitis. Used oil may contain harmful impurities.
<b>Safety Hazards:</b>	Not classified as flammable, but will burn.
<b>Environmental Hazards:</b>	Not readily biodegradable. Expected to have a high potential to bioaccumulate.
<b>Other information:</b>	Not classified as dangerous for supply or conveyance.

## SECTION 3. COMPOSITION, INFORMATION OR INGREDIENTS

<b>Preparation Description:</b>	Blend of highly-refined mineral oils and additives.
<b>Composition:</b>	Blend of highly-refined mineral oils and additives.
<b>Dangerous Components/Constituents:</b>	On the basis of available information, the components of this preparation are not expected to impart hazardous properties to this product.

## SECTION 4. FIRST AID MEASURE

<b>Symptoms and Effects:</b>	Not expected to give rise to an acute hazard under normal conditions of use.
<b>First Aid - Inhalation:</b>	In the unlikely event of dizziness or nausea, remove casualty to fresh air. If symptoms persist, obtain medical attention.
<b>First Aid - Skin:</b>	Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention.

#### CONTINUED: SECTION 4. FIRST AID MEASURE

	If high pressure injection injuries occur, obtain medical attention immediately
<b>First Aid - Eye:</b>	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
<b>First Aid - Ingestion:</b>	Wash out mouth with water and obtain medical attention. DO NOT INDUCE VOMITING.
<b>Advice to Physicians:</b>	Treat symptomatically. Aspiration into the lungs may result in chemical pneumonitis. Dermatitis may result from prolonged or repeated exposure.

#### SECTION 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.
<b>Protective Equipment:</b>	Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Avoid contact with skin and eyes.
<b>Personal Protection:</b>	Wear impermeable gloves and boots.
<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.

#### SECTION 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 labeled and closable containers. Avoid direct sunlight, heat sources, and strong oxidizing agents.
<b>Storage Temperature:</b>	0°C minimum to 50°C maximum.
<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.

## SECTION 8. EXPOSURE CONTROLS AND 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>
<b>Oil Mist, Mineral</b>	8-hour TWA	5	mg/m <sup>3</sup>	ACGIH
	15-min STEL	10	mg/m <sup>3</sup>	ACGIH
<b>Hygiene Measures:</b>	Wash hands before eating, drinking, smoking and using the toilet.			
<b>Respiratory Protection:</b>	Not normally required. If oil mist cannot be controlled, a respirator fitted with an organic vapor cartridge combined with a particulate pre-filter should be used.			
<b>Hand Protection:</b>	PVC or nitrile rubber gloves.			
<b>Eye Protection:</b>	Wear safety glasses or full face shield if splashes are likely to occur.			
<b>Body Protection:</b>	Minimize all forms of skin contact. Wear overalls to minimize contamination of personal clothing. Launder overalls and undergarments regularly.			

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid at ambient temperature.
<b>Colour:</b>	Light brown
<b>Odour:</b>	Characteristic mineral oil
<b>Initial Boiling Point:</b>	>280°C
<b>Vapour Pressure:</b>	< 0.5 Pa at 20°C
<b>Density:</b>	See Table 1 (Section 16)
<b>Vapour Density (air=1):</b>	> 1 at 20°C
<b>Pour Point:</b>	See Table 1 (Section 16)
<b>Flash Point:</b>	See Table 1 (Section 16)
<b>Flammability Limit- Lower:</b>	1% V/V (typical)
<b>Flammability Limit- Upper:</b>	10% V/V (typical)
<b>Auto-Ignition Temperature:</b>	> 320°C (typical)
<b>Solubility In Water:</b>	Negligible

## SECTION 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Conditions To Avoid:</b>	Extremes of temperature and direct sunlight.
<b>Materials To Avoid:</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products:</b>	Hazardous decomposition products are not expected to form during normal storage.

## SECTION 11. TOXICOLOGICAL INFORMATION

<b>Basis For Assessment:</b>	Toxicological data have not been determined specifically for this product. Information given is based on knowledge of the components and the toxicology of similar products.
<b>Acute Toxicity- Oral:</b>	LD <sub>50</sub> expected to be above 2000 mg/kg
<b>Acute Toxicity- Dermal:</b>	LD <sub>50</sub> expected to be above 2000 mg/kg
<b>Acute Toxicity- Inhalation:</b>	Data not available.
<b>Eye Irritation:</b>	Expected to be slightly irritant.
<b>Skin Irritation:</b>	Expected to be slightly irritant.
<b>Respiratory Irritation:</b>	If mists are inhaled, slight irritation of the respiratory tract may occur.
<b>Skin Sensitization:</b>	Not expected to be a skin sensitizer
<b>Carcinogenicity:</b>	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.
<b>Mutagenicity:</b>	Not considered to be a mutagenic hazard.
<b>Other Information:</b>	<p>Prolonged and/or repeated contact with this product can result in defatting of the skin, particularly at elevated temperatures. This can lead to irritation and possibly dermatitis; especially under conditions of poor personal hygiene. Skin contact should be minimized.</p> <p>Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible</p>

## SECTION 12. ECOLOGICAL INFORMATION

<b>Basis For Assessment:</b>	Ecotoxicological data have not been determined specifically for this product. Information given is based on 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 bio accumulated.
<b>Ecotoxicity:</b>	Poorly soluble mixture. Product is expected to be practically non-toxic to aquatic organisms, LC/EC <sub>50</sub> > 100 mg/L. May cause physical fouling of aquatic organisms. (LC/EC <sub>50</sub> expressed as the nominal amount of product required to prepare aqueous test extract)

## SECTION 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal:</b>	Recycle or dispose of in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the contractor to deal satisfactorily with this type of product should be established beforehand.
<b>Container Disposal:</b>	200 litre drums should be emptied and returned to the supplier or sent to a drum reconditioner without removing or defacing markings or labels. Non-reusable small metal and plastic containers should be recycled where possible, or disposed of as domestic refuse.

## SECTION 14. TRANSPORT INFORMATION

Not dangerous for conveyance under UN, IMO, ADR/RID and IATA/ICAO codes.

## SECTION 15. REGULATORY INFORMATION

**EC Classification:** Not classified as Dangerous under EC criteria

**EINECS (EC):** All components listed or polymer exempt.

**TSCA (USA):** All components listed.

**MITI (JAPAN):** All components listed.

## SECTION 16. OTHER INFORMATION

**Uses and Restrictions:** For hydraulic applications requiring a mild anti-wear oil.

**Technical Contact Point:** Technical Support Team , Lubricants & Bitumen Division

**Technical Contact Number:** Telephone: 03-5531-5766  
Fax: 03-5531-5768

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.

TABLE 1: SHELL TELLUS S2 M

SHELL TELLUS S2 M	22	32	46	68	100
Density, kg/m <sup>3</sup> at 15°C	860	869	876	881	885
Pour Point °C	-30.0	-30.0	-30.0	-30.0	-25.0
Flash Point °C (COC)	210	210	228	238	258