

SECTION 1. CHEMICAL PRODUCT AND COMPANY NAME

Compressor Oil
Part No. 181122-A

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:	12/13/2016

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

Not classified as toxic chemical substance according to Taiwan Toxic Chemical Substances (TCS)

GHS Classification: NOT HAZARDOUS, Category

GHS Label Elements No symbol

Symbol(s):

Signal Words GHS No signal word

Hazard Statements: PHYSICAL HAZARDS:
 Not classified as a physical hazard under GHS criteria.

HEALTH HAZARDS:
 Not classified as a health hazard under GHS criteria.

ENVIRONMENTAL HAZARDS:
 Not classified as an environmental hazard under GHS criteria.

GHS Precautionary PREVENTION:
Statements: No precautionary phrases.
 RESPONSE:
 No precautionary phrases.

STORAGE:
 No precautionary phrases.

DISPOSAL:
 No precautionary phrases.

Other Hazards which do Not classified as flammable but will burn.
not result in Classification:

SECTION 3. COMPOSITION, INFORMATION OR INGREDIENTS

Preparation description: Highly refined mineral oils and additives.			
Hazardous Components Chemical Identity	CAS Number	Identification No.	Concentration (%)
Alkylated phenol:			< 3.00 %
Additional Information: The highly refined mineral oil contains <3% (w/w) DMSO- extract, according to IP346.			

SECTION 4. FIRST AID MEASURE

General Information:	Not expected to be a health hazard when used under normal conditions.
Inhalation:	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
Skin Contact:	Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention
Eye Contact:	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
Ingestion:	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Most Important Symptoms/Effects, Acute & Delayed:	Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhea.
Immediate medical attention, special treatment:	Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.	
Specific hazards arising from Chemicals:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds
Suitable Extinguishing Media:	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable Extinguishing Media:	Do not use water in a jet
Protective Equipment & Precautions for Fire Fighters:	Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe all relevant local and international regulations.	
Personal Precautions, Protective Equipment and Emergency Procedures:	Avoid contact with skin and eyes.
Environmental Precautions:	Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

CONTINUED: SECTION 6. ACCIDENTAL RELEASE MEASURES

Methods and Material for Containment and Clean Up:	Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
Additional Advice:	Local authorities should be advised if significant spillages cannot be contained.

SECTION 7. HANDLING AND STORAGE

General Precautions:	Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Precautions for Safe Handling:	Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used
Conditions for Safe Storage:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F
Recommended Materials:	For containers or container linings, use mild steel or high density polyethylene.
Unsuitable Materials:	PVC.
Other Advice:	Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits					
Material	Source	Type	ppm	mg/m3	Notation
Oil mist, mineral	ACGIH	TWA [Mist.]		5 mg/m3	
Oil mist, mineral	ACGIH	STEL [Mist.]		10 mg/m3	
Oil mist, mineral	TW_PEL	TWA [Mist.]		5 mg/m3	

Biological Exposure Index (BEI) - See reference for full details
Data not available

Appropriate Engineering Controls: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Individual Protection Measures: Hygiene measures: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. See also the following information:

Respiratory Protection No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C(149 °F)].

CONTINUED: SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Hand Protection:	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
Eye Protection:	Wear safety glasses or full face shield if splashes are likely to occur.
Protective Clothing:	Skin protection not ordinarily required beyond standard issue work clothes.
Thermal Hazards:	Not applicable.
Monitoring Methods:	Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate
Environmental Exposure Controls:	Minimize release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light brown. Liquid at room temperature.
Odour:	Slight hydrocarbon
Odour threshold	Data not available
pH:	Not applicable
Initial Boiling Point and Boiling Range:	> 280 °C / 536 °F estimated value(s)
Pour point:	Typical -18 °C / 0 °F
Flash point:	Typical 235 °C / 455 °F (COC)
Upper / lower Flammability or Explosion limits:	Typical 1 - 10 %(V) (based on mineral oil)
Auto-ignition temperature:	> 320 °C / 608 °F
Vapour pressure	< 0.5 Pa at 20 °C / 68 °F (estimated value(s))
Relative Density:	
Density:	Typical 885 kg/m ³ at 15 °C / 59 °F
Water solubility:	Negligible.
Solubility in other solvents:	Data not available
n-octanol/water partition coefficient (log Pow):	> 6 (based on information on similar products)
Dynamic viscosity:	Data not available
Kinematic viscosity	Typical 68 mm ² /s at 40 °C / 104 °F
Vapour density (air=1):	> 1 (estimated value(s))
Evaporation rate (nBuAc=1):	Data not available
Decomposition:	Data not available
Temperature Flammability	Data not available

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Possibility of Hazardous Reactions:	Data not available
Conditions to Avoid:	Extremes of temperature and direct sunlight.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Hazardous decomposition products are not expected to form during normal storage.
Hazardous Polymerization	Data not available
Sensitivity to Mechanical Impact	Data not available
Sensitivity to Static Discharge	Data not available

SECTION 11. TOXICOLOGICAL INFORMATION

Basis for Assessment	Information given is based on data on the components and the toxicology of similar products.
Likely Routes of Exposure	Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion
Acute Oral Toxicity	Expected to be of low toxicity: LD50 > 5000 mg/kg
Acute Dermal Toxicity	Expected to be of low toxicity: LD50 > 5000 mg/kg
Acute Inhalation Toxicity	Not considered to be an inhalation hazard under normal conditions of use.
Skin Corrosion/Irritation	Expected to be slightly irritating.
Serious Eye Damage/Irritation	Expected to be slightly irritating.
Respiratory Irritation	Inhalation of vapours or mists may cause irritation.
Respiratory or Skin Sensitization	Not expected to be a skin sensitizer.
Repeated Dose Toxicity	Not expected to be a hazard.
Aspiration Hazard	Not considered an aspiration hazard.
Germ Cell Mutagenicity	Not considered a mutagenic hazard.
Carcinogenicity	Product contains mineral oils of types shown to be non- carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.
Reproductive and Developmental Toxicity	Not expected to be a hazard.
Additional Information	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.

SECTION 12. ECOLOGICAL INFORMATION

Basis for Assessment:	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.
Acute Toxicity:	Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.
Microorganisms:	Data not available
Mobility:	Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.
Persistence/degradability	Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
Bioaccumulative Potential:	Contains components with the potential to bioaccumulate.
Other Adverse Effects:	Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

SECTION 13. DISPOSAL CONSIDERATIONS

Material Disposal:	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
Container Disposal:	Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.
Local Legislation:	Disposal should be in accordance with applicable regional, national, and local laws and regulations.

SECTION 14. TRANSPORT INFORMATION

Land (as per ADR classification): Not regulated	This material is not classified as dangerous under ADR regulations.
IMDG	This material is not classified as dangerous under IMDG regulations
IATA (Country variations may apply)	This material is not classified as dangerous under IATA regulations.

SECTION 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

EINECS:	All components listed or polymer exempt.
TSCA:	All components listed.
Other Information:	Rules on hazard communication of dangerous and harmful materials. Rules on public hazardous products and flammable pressurized gases installation and safety management. Rules on labor safety and hygiene facilities. Standards on workplace atmosphere of dangerous and hazardous materials. Rules on waste storage and disposal installation standard. Rules on road transport safety. Rules on toxic chemicals. Standard on harm prevention of specific chemical substance. Rules on organic solvent poison prevention. Rules on pressurized gas labor safety.

SECTION 16. OTHER INFORMATION

**Key Literature
References:**

The content and format of this safety data sheet is in accordance with the GHS guidelines.

Disclaimer:

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 therefore be construed as guaranteeing any specific property of the product.