

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product Name:** MAKITA GREASE R No.00**Product Code:** None**Company Name:** NIPPON KOYU LTD.**Address:** No.22-5, 3 CHOME, NISHIROKUGO, OTA-KU, TOKYO, JAPAN**Telephone Number:** +81-3-3736-2554**Use of the product:** Lubricating grease**SECTION 2 HAZARDS IDENTIFICATION****EU Classification:** Not classified as dangerous.**Emergency Overview:** Yellow semi-fluid, Bland odor**Potential Health Effects and Symptoms:****Inhalation:** In application where vapors (caused by high temperature) or mists (caused by mixing or spraying) are created, breathing may cause irritation of the nose and throat, headache, nausea and drowsiness.**Ingestion:** May cause abdominal discomfort, nausea, or diarrhea.**Eye:** May cause irritation.**Skin:** May cause minimal skin irritation.**Chronic Effects:** Not known**Medical Conditions Generally known to be Aggravated by Exposure:** Not known**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient(s) Chemical Name / Generic Name	CAS#	EC#	Wt%	EU symbol	EU R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Refined mineral base oil	Confidential	Confidential	40-50	None	None	5mg/m <sup>3</sup> (TWA:total)	5mg/m <sup>3</sup> (TWA:total)	Not established	Not established
Synthetic hydrocarbon base oil	Confidential	Confidential	40-50	None	None	Not established	Not established	Not established	Not established
Lithium soap thickener	Confidential	Confidential	1-5	None	None	Not established	Not established	Not established	Not established
Additives	Confidential	Confidential	1-5	None	None	Not established	Not established	Not established	Not established
(Organic molybdenum)	68412-26-0	270-180-5	<1	None	None	15 mg/m <sup>3</sup> TWA : Total dust as Mo	10 mg/m <sup>3</sup> TWA : Insoluble compounds, as Mo	Not established	Not established

**Carcinogen:****Chemical Name:** None **CAS#:** **Reference:**

No component of this product is listed as a human carcinogen or a potential carcinogen in IARC Monographs, U.S. NTP, OSHA regulation, and Annex I to Directive 67/548/EEC.

Refined mineral base oil, by definition, is considered hazardous according to OSHA. Because it carries Threshold limit value(TLV) for mineral oil mist. Refined mineral base oil contain <3.0%DMSO extractable material.

**PBT substance and vPvB substance:****Chemical Name:** None **CAS#:** **Category:**

No component of this product is a PBT or vPvB substance under Regulation (EC)1907/2006.

**SECTION 4 FIRST AID MEASURES****First Aid Measures:**

**Inhalation:** Remove exposed person to fresh air if adverse effects are observed.

**Ingestion:** Do not make person vomit unless directed to do so by medical personnel

**Eye:** Flush immediately with water for at least 15 minutes. Get immediate medical attention.

**Skin:** Wash with soap and water. Get medical attention if irritation develops.

**Note to Physicians:** Treat symptomatically.

**SECTION 5 FIRE FIGHTING MEASURES****Fire Fighting Measures:**

**Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide to extinguish flames.

**Unsuitable Extinguishing Media:** DO NOT use forcible water.

**Special Fire Fighting Procedures:** Self-contained breathing apparatus and protective clothing if involved in a fire of other materials.

**Unusual Fire and Explosion Hazards:** None

**Fire and Explosive Properties (See also Section 9):**

**Hazardous Combustion Products:** CO, CO<sub>2</sub>, Oxides of sulfur

**Other Properties:** None

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Eliminate all ignition sources.

**Environmental Precautions:** Should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

**Method for Cleaning Up:** Sweep material and place in a disposal container. Contain spilled liquid with sand or earth.  
Vacuum or sweep up material and place in a disposal container.

**SECTION 7 HANDLING AND STORAGE**

**Handling:** Do not weld, heat or drill container. Replace cap or bung. Emptied container still contains hazardous material which may ignite with explosive violence if heated sufficiently. Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

**Storage:** Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

**Specific**

**Uses:** Lubricating grease

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines:** None

**Engineering Controls:** When mist is generated, the limited part is ventilated.

**Personal Protection Equipment(s):**

**Respiratory Protection:**  Required  Not Required Wear a breathing mask.

**Eye/Face Protection:**  Required  Not Required Wear safety glasses.

**Skin Protection:**  Required  Not Required To prevent contact, wear impervious clothing such as gloves, apron.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Yellow, Semi-Fluid

**Odor:** Bland odor

**pH:** No data available

**Boiling Point/Range(°C):** Not applicable

**Melting Point/Range(°C):** Not applicable

**Decomposition Temperature(°C):** Not applicable

**Flash Point(°C):** >200 (SETA)

**Flammable (Explosive) Limits:** No data available

**Autoignition Temperature(°C):** No data available

**Flammability:** No data available

**Explosive Properties:** Not applicable

**Oxidizing Properties:** Not applicable

**Vapor Pressure:** No data available

**Vapor Density:** No data available

**Density/Specific Gravity:** Ca. 0.86

**Water Solubility:** Negligible

**Fat Solubility:** No data available

Partition Coefficient  
(n-Octanol/Water):

No data available

Percent Volatile(%):

No data available

Evaporation Rate:

Not applicable

Viscosity(m Pa s):

Not applicable

## SECTION 10 STABILITY AND REACTIVITY

Stability:

Stable  Unstable

Conditions to Avoid:

See SECTION 7 HANDLING AND STORAGE

Materials to Avoid:

Acids, Oxidizing agents such as H<sub>2</sub>O<sub>2</sub>, permanganates and perchlorates.  
Halogens and halogenated compounds.

Hazardous Decomposition

Products:

CO, CO<sub>2</sub> Hydrogen sulfide and sulfides may also be released

Hazardous Polymerization:

May Occur  Will Not Occur

Conditions to Avoid:

## SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation: No data available

Ingestion: No data available

Eye: No data available

Skin: No data available

Sensitization:

No data available

Mutagenicity:

No data available

Reproductive Toxicity:

No data available

Carcinogenicity:

No data available

Others:

None

## SECTION 12 ECOLOGICAL INFORMATION

Mobility:

No data available

Persistence/Degradability:

No data available

Bioaccumulation:

No data available

Ecotoxicity:

No data available

Other Adverse Effects:

None

**SECTION 13 DISPOSAL CONSIDERATIONS**

**Method of Disposal:** Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

**SECTION 14 TRANSPORT INFORMATION**

**UN#:** None

**UN Shipping Name:** None

**UN Classification:** None

**UN Packing Group:** None

**Marine Pollutant:**  Yes Chemical name (wt%) \_\_\_\_\_  
 No

**Special Precautions:** None

**SECTION 15 REGULATORY INFORMATION****EU Information:****Information on the Label:**

**Symbol & Indication:** Not required

**R-Phrase:** Not required

**S-Phrase:** Not required

**Dangerous Component(s):** None

**Special Precautions under  
67/548/EEC Article 8 and 13  
or 1999/45/EC Annex V:** Not required

**Specific Provisions in Relation to Protection of Man or the Environment:**

**76/769/EEC:** Not regulated

**(EC)2037/2000:** Not regulated

**(EC)304/2003:** Not regulated

**Others:** None

**USA Information:****Information on the Label under OSHA HCS:**

**Signal Word:** Not required

**Hazard warning:** Not required

**Safety Advice:** Not required

**Hazardous Component(s):** Not required

**SARA Title III, 313:****Chemical Name:** None**Wt%:****California Proposition 65:****Chemical Name:** None**Wt%:****SECTION 16 OTHER INFORMATION****Other Information:** None**Date of Issue:** May 15, 2008**Revised Date:** Not revised**Literature Reference:**

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- Safe Drinking Water and Toxic Enforcement Act of 1986
- Title III of the Superfund Amendments and Reauthorization Act of 1986
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 88/379/EEC, 1999/45/EC and their amendments.
- EU Regulation (EC)3093/94, (EEC)2455/92 and their amendments.

**Abbreviations:****EU:** European Union**OSHA PEL:** PEL (Permissible Exposure Limit) under Occupational Safety and Health Administration**ACGIH TLV:** TLV (Threshold Limit Value) under American Conference of Governmental Industrial Hygienists**EU ILV:** Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC, 2000/39/EC and 2006/15/EC**DFG MAK:** MAK (Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft**PBT:** Persistent, Bioaccumulative and Toxic**vPvB:** very Persistent and very Bioaccumulative