

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product Name:** LOGENEST LAMBDA NFH-164C**Product Code:** None**Company Name:** NIPPON KOYU LTD.**Address:** No.385-14 SHIINOMORI SODEGAURA CHIBA 299-0247 JAPAN**Telephone Number:** +81-0438-60-2180**Use of the product:** Lubricating grease**SECTION 2 HAZARDS IDENTIFICATION****EU Classification:** Not classified as dangerous.**Emergency Overview:** Smooth, milky white, semi-solid, odorless.**Potential Health Effects and Symptoms:****Inhalation:** Not identified**Ingestion:** Emesis (Vomit), or diarrhea.**Eye:** Not identified**Skin:** Not identified**Chronic Effects:** Not known**Medical Conditions Generally known to be Aggravated by Exposure:**

Oil mist or vapors from the product at high temperatures may irritate respiratory passages. Inhalation of decomposition products of the product (above 260°C) may cause polymer fume fever, a temporary flu-like illness accompanied by fever, chills, and sometimes cough, of approximately 24 hours duration.

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
Perfluorinated polyethers base oil	Confidential	Confidential	60-70	None	None	Not established	Not established	Not established	Not established
Poly tetra fluoro ethylene thickener	Confidential	Confidential	30-40	None	None	Not established	Not established	Not established	Not established
Additive	Confidential	Confidential	<5	None	None	Not established	Not established	Not established	Not established

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

No human carcinogen or potential carcinogen according to IARC Monographs, U.S. NTP, U.S. OSHA Regulation, and Annex I of Directive 67/548/EEC.

PBT substance and vPvB substance:**Chemical Name:** None**CAS#:****Category:****Date of Issue:** August 31, 2010**Revised Date:** Not applicable

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. If irritation persists, obtain medical attention.
Ingestion:	If irritation persists, obtain medical attention.
Eye:	Flush immediately with water for at least 15minutes. Obtain medical attention.
Skin:	Wash with soap and water. If irritation persists, obtain medical attention.
Note to Physicians:	None

SECTION 5 FIRE FIGHTING MEASURES

Fire Fighting Measures:

Extinguishing Media:	Dry chemical carbon dioxide, Foam, Water fog
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:	Product will emit toxic fumes at high temperatures.

Fire and Explosive Properties (See also Section 9):

Hazardous Combustion Products: CO,CO₂,HF,COF₂

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.

SECTION 7 HANDLING AND STORAGE

Handling:	Do not handle or store near open flame. Avoid heating in high temperature(above 260°C). Keep container closed.
Storage:	Store in a cool and 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:** Not required**Personal Protection Equipment(s):****Respiratory Protection:** Required Not Required Not ordinarily required.**Eye/Face Protection:** Required Not Required Wear safety glasses.**Skin Protection:** Required Not Required To prevent any contact, wear impervious clothing such as gloves, apron.**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****Appearance:** Smooth, milky white, semi-solid**Odor:** Odorless**pH:** Not applicable**Boiling Point/Range(°C):** No data available**Melting Point/Range(°C):** No data available**Decomposition Temperature(°C):** No data available**Flash Point(°C):** Not applicable**Flammable (Explosive) Limits:** No data available**Auto ignition Temperature(°C):** Not applicable**Flammability:** Not applicable**Explosive Properties:** Not applicable**Oxidizing Properties:** Not applicable**Vapor Pressure:** No data available**Vapor Density:** No data available**Density/Specific Gravity:** Ca. 1.9 (25°C)**Water Solubility:** Negligible**Fat Solubility:** No data available**Partition Coefficient
(n-Octanol/Water):** No data available**Percent Volatile(%):** Not applicable**Evaporation Rate:** Not applicable**Viscosity(m Pa s):** Not applicable**SECTION 10 STABILITY AND REACTIVITY****Stability:** Stable Unstable**Conditions to Avoid:** Avoid heating the product above 260°C. Avoid contact with flames.**Materials to Avoid:** Acids. Strong alkaline non aqueous compounds. Oxidizing agents such as H₂O₂, permanganates**Date of Issue:** August 31, 2010**Revised Date:** Not applicable

and perchlorates. Halogens and halogenated compounds.

Hazardous Decomposition

CO,CO₂,HF,COF₂

Products:**Hazardous Polymerization:**

May Occur Will Not Occur

Conditions to Avoid:

None

SECTION 11 TOXICOLOGICAL INFORMATION**Acute Toxicity:**

Inhalation: Inhalation LD50 (vapor): No data available

Inhalation LD50 (mist): No data available

Ingestion: Oral rats LD50: >5000mg/kg

Eye: No data available

Skin: Dermal LD50: No data available

Sensitization: No data available

Mutagenicity: No data available

Reproductive Toxicity: No data available

Carcinogenicity: Base oil, Thickener, Additive: Not listed by IARC, OSHA, NTP, EU and ACGIH.

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: No data available

SECTION 13 DISPOSAL CONSIDERATION

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

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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:**

Signal Word: Not required

Hazard warning: Not required

Safety Advice: Not required

Hazardous Component(s): Not required

SARA TitleIII, 313:

Chemical Name: None **Wt%:** _____

California Proposition 65:

Chemical Name: None **Wt%:** _____

SECTION 16 OTHER INFORMATION

Other Information: None

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Revised Date: Not applicable

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