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**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**


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**1.1 Product identifier**

**Product name:** LOGENEST LAMBDA NK-74C

**Product code:** None.

**SDS No.** M-4279

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Use of the** Grease for industrial applications.

**substance/mixture:** No further relevant information available.

**Recommend** Not applicable.

**use/restrictions on use:** \_\_\_\_\_

**1.3 Details of the supplier of the safety data sheet**

**Company name:** NIPPECO LTD.

**Address:** No.385-14 SHIINOMORI SODEGAURA CHIBA 299-0247 JAPAN

**Telephone number:** +81-438-60-2180

**1.4 Emergency telephone number**

+81-438-60-2180

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**SECTION 2 HAZARDS IDENTIFICATION**


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**2.1 Classification of the substance or mixture**

**Classification(EC1272/2008):** The product is not classified as hazardous according to the CLP regulation.

**Physical hazards:**

Flammable solids: Not classified.

Pyrophoric solids: Not classified.

Self-heating substances and mixtures: Not classified.

Corrosive to metals: Not classified.

**Health hazards:**

Acute toxicity-Oral: Classification not possible.

Acute toxicity-Dermal: Classification not possible.

Acute toxicity-Inhalation: mist: Classification not possible.

Skin corrosion/irritation: Classification not possible.

Eye damage/ irritation: Classification not possible.

Sensitization-Respiratory: Classification not possible.

Sensitization-Skin: Classification not possible.

Germ cell mutagenicity: Classification not possible.

Carcinogenicity: Classification not possible.

Reproductive toxicity: Classification not possible.

Specific target organ toxicity  
-Single exposure: Classification not possible.

Specific target organ toxicity  
-Repeated exposure: Classification not possible.

Aspiration hazard: Classification not possible.

**Environmental hazards:**

Hazardous to the aquatic environment  
-Acute (short-term) aquatic toxicity: Classification not possible.

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Hazardous to the aquatic environment  
 -Chronic (long term) aquatic toxicity: Classification not possible.

The hazards without the above mention are "Not applicable" or "Classification not possible".

**Classification(OSHA HCS 29 CFR 1910.1200 ):**

The product is not classified as hazardous according to OSHA GHS regulations within the United States.

**2.2 Label elements**

**Hazard pictogram(s):** No pictogram.

**Signal word:** No signal word.

**Hazard statement(s):** No hazard statement.

**Precautionary statement(s):**

**Prevention:** Not required.

**Response:** Not required.

**Storage:** Not required.

**Disposal:** Not required.

**2.3 Other hazards**

**Other hazards which do not result in classification:** Oil mist or vapors from this material at high temperatures(above 260°C) may irritate respiratory passages.

Inhalation of decomposition products of this material 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**

**Substance/mixture** Mixture

**Ingredient(s):**

Chemical name / generic name	CAS#	EC#	Wt%	EU Hazard class	EU Category code	USA OSHA PEL	ACGIH TLV	EU ILV
Perfluorinated polyethers base oil	Confidential	Confidential	65-75	None	None	Not established	Not established	Not established
Poly tetra fluoro ethylene thickener	Confidential	Confidential	25-35	None	None	Not established	Not established	Not established
Additives	Confidential	Confidential	<5	None	None	Not established	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 VI of Regulation (EC) 1272/2008.

**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.

A statement that the specific chemical identity(ies) and/or exact percentage(s) of composition has been withheld as a trade secret.

## SECTION 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>Inhalation:</b>	Remove exposed person to fresh air if adverse effects are observed.
<b>Skin:</b>	Wash with soap and water. Get medical attention if irritation develops.
<b>Eye:</b>	Flush immediately with water for at least 15 minutes. Get immediate medical attention.
<b>Ingestion:</b>	Do not make person vomit unless directed to do so by medical personnel.
<b>Protection of first-aiders:</b>	No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

See SECTION 11 for more detailed information on health effects and symptoms.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treatment should in general be symptomatic and directed to relieving any effects.

## SECTION 5 FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

<b>Suitable extinguishing media:</b>	Use water fog, foam, dry chemical or carbon dioxide to extinguish flames.
<b>Unsuitable extinguishing media:</b>	DO NOT use forcible water. See SECTION 11 for more detailed information on health effects and symptoms.

### 5.2 Special hazards arising from the substance or mixture

<b>Hazards from the substance or mixture:</b>	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products:</b>	Formation of toxic gases is possible during heating or in case of fire. Combustion products may include the following: Carbon oxides (CO, CO <sub>2</sub> ), HF, COF <sub>2</sub> . Decomposition at flame temperatures may form toxic fluorine compounds. Avoid breathing decomposition products.

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters:</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters:</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel:</b>	Eliminate all ignition sources. Evacuate surrounding areas.
<b>For emergency responders:</b>	Particular danger of slipping on leaked/spilled product.

### 6.2 Environmental precautions

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

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### 6.3 Methods and material for containment and cleaning up

- Small spill:** Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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- Large spill:** Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover spill area with oil absorbent. Dispose of via a licensed waste disposal contractor.
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### 6.4 Reference to other sections

See SECTION 7 for information on safe handling.  
 See SECTION 8 for information on personal protection equipment.  
 See SECTION 13 for disposal information.

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## SECTION 7 HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

- Protective measures:** Put on appropriate personal protective equipment (see SECTION8).
- Advice on general occupational hygiene:** Workers should wash hands and face before eating, drinking and smoking. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see SECTION 10). Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/ containers designed for use with this product. Do not store in unlabeled containers.

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**Not suitable:** Prolonged exposure to elevated temperature.

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### 7.3 Specific end use(s)

No further relevant information available.

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## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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### 8.1 Control parameters

No exposure limit value known on the product itself.  
 OSHA PEL: Not established  
 ACGIH TLV: Not established  
 NIOSH REL: Not established  
 EU ILV: Not established

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### 8.2 Exposure controls

<b>Appropriate engineering controls:</b>	When mist is generated, the limited part should be ventilated. A washing facility/water for eye and skin cleaning purposes should be present.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection:</b>	<input checked="" type="checkbox"/> <b>Required</b> <input type="checkbox"/> <b>Not required</b> Wear safety glasses with side shields.
<b>Skin(hand/other) protection:</b>	<input checked="" type="checkbox"/> <b>Required</b> <input type="checkbox"/> <b>Not required</b> To prevent contact, wear impervious clothing such as gloves, apron.
<b>Respiratory protection:</b>	<input type="checkbox"/> <b>Required</b> <input checked="" type="checkbox"/> <b>Not required</b> No special respiratory protection equipment is required under normal conditions of use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Thermal hazards:</b>	<input type="checkbox"/> <b>Required</b> <input checked="" type="checkbox"/> <b>Not required</b> Not normally required.
<b>Environmental exposure controls:</b>	Avoid release to the environment.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Smooth, white, semi-solid.
<b>Odor:</b>	Odorless.
<b>Odor threshold:</b>	Not determined.
<b>pH:</b>	Not determined.
<b>Melting point/ freezing point(°C):</b>	Not determined.
<b>Initial boiling point and boiling range (°C):</b>	Undetermined.
<b>Flash point(°C):</b>	Not applicable.
<b>Evaporation rate:</b>	Not determined.
<b>Upper/lower flammability or explosive limits:</b>	Not determined.
<b>Vapor pressure:</b>	Not determined.
<b>Relative density:</b>	Not determined.
<b>Density/specific gravity:</b>	Ca. 1.9 (25°C)
<b>Solubility(ies):</b>	Negligible (in water).
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Auto-ignition temperature(°C):</b>	Not determined.
<b>Decomposition temperature(°C):</b>	Not determined.
<b>Viscosity(m Pa s):</b>	Not determined.

**Explosive properties:** Not determined.

**Oxidizing properties:** Not determined.

**9.2 Other information**

No further relevant information available.

**SECTION 10 STABILITY AND REACTIVITY**

**10.1 Reactivity** No specific test data available for this product.

**10.2 Chemical stability**  Stable  Unstable

**10.3 Possibility of hazardous reactions**

May Occur  Will not occur

**10.4 Conditions to avoid** Heat, sparks, flames, and other ignition sources.

**10.5 Incompatible materials** Acids. Oxidizing agents such as H<sub>2</sub>O<sub>2</sub>, permanganates and perchlorates.

Halogens and halogenated compounds.

**10.6 Hazardous decomposition products**

Carbon oxides (CO, CO<sub>2</sub>), HF, COF<sub>2</sub>

Decomposition at flame temperatures may form toxic fluorine compounds.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Likely routes of exposure:** Eye contact, skin, ingestion.

**Symptoms related to the physical, chemical, and toxicological characteristics:**

See SECTION 4 for skin contact, eye contact, and ingestion.

**Delayed and immediate effects and also chronic effects from short and long term exposure:**

Not applicable.

**Numerous measures of toxicity :**

Not applicable.

**Acute toxicity:**

Oral: No data available.

Dermal: No data available.

Inhalation (vapor): No data available.

Inhalation (mist): No data available.

**Skin corrosion/irritation:** No known significant effects or critical hazards.

**Serious eye damage/ irritation:** No known significant effects or critical hazards.

**Sensitization-Respiratory:** No known significant effects or critical hazards.

**Sensitization-Skin:** No known significant effects or critical hazards.

**Germ cell mutagenicity:** No known significant effects or critical hazards.

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

**Toxic to reproduction:** No known significant effects or critical hazards.

**Specific target organ systemic toxicity following single exposure:** No known significant effects or critical hazards.

**Specific target organ systemic toxicity following repeated exposure:** No known significant effects or critical hazards.

**Aspiration hazard:** No known significant effects or critical hazards.

**Other information:** No further relevant information available.

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**SECTION 12 ECOLOGICAL INFORMATION**


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**12.1 Toxicity**

**Aquatic:** No further relevant information available.

**Terrestrial:** No further relevant information available.

**12.2 Persistence and degradability**

No specific test data available for this product.

**12.3 Bioaccumulative potential**

No further relevant information available.

**12.4 Mobility in soil**

No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

Not applicable.

**12.6 Other adverse effects**

No additional information available.

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**SECTION 13 DISPOSAL CONSIDERATIONS**


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**13.1 Waste treatment methods**

**Product and packaging:** 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.

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**SECTION 14 TRANSPORT INFORMATION**


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**14.1 UN number** Not regulated.

**14.2 UN proper shipping name** Not regulated.

**14.3 Transport hazard class(es)** Not regulated.

**14.4 Packing group** Not regulated.

**14.5 Environmental hazards**

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

**14.6 Special precautions for user** Not applicable.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

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**SECTION 15 REGULATORY INFORMATION**


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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU information**  
**(EC)1907/2006**

Not regulated.

**Title VII:** \_\_\_\_\_  
**(EC)1907/2006**  
**Title VIII:** \_\_\_\_\_  
**(EC)1005/2009:** \_\_\_\_\_  
**(EC)805/2004:** \_\_\_\_\_  
**(EU)649/2012:** \_\_\_\_\_  
**Others:** \_\_\_\_\_  
 No further relevant information available.

**USA information****TSCA (Toxic substances control act)**

\_\_\_\_\_   
 Not regulated. All ingredients are listed.

**Information on the label under OSHA HCS**

**Signal word:** \_\_\_\_\_  
 Not required.  
**Hazard statement(s):** \_\_\_\_\_  
 Not required.  
**Pictogram(s):** \_\_\_\_\_  
 Not required.  
**Precautionary statement(s):** \_\_\_\_\_  
 Not required.  
**Unclassified hazards** \_\_\_\_\_  
 Not applicable.  
**(HNOC):** \_\_\_\_\_  
**Percentage of ingredient(s)** \_\_\_\_\_  
 Not applicable.  
**with unknown toxicity:** \_\_\_\_\_

**SARA Title III § 313**

\_\_\_\_\_   
**Chemical name:** None. **Wt%:**

**California Proposition 65**

\_\_\_\_\_   
**Chemical name:** None. **Wt%:**

**Others**

\_\_\_\_\_   
 No further relevant information available.

**15.2 Chemical safety assessment**

\_\_\_\_\_   
 This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16 OTHER INFORMATION****Other Information**

\_\_\_\_\_   
 No additional information available.

**Date of Issue:** \_\_\_\_\_  
 August 19, 2016

**The date of preparation of the** \_\_\_\_\_  
 Not applicable.

**SDS or the last change to it:** \_\_\_\_\_

**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.
- 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.
  - EU Regulation (EC) 1005/2009, (EC) 805/2004, (EU) 649/2012, (EC) 1907/2006, (EC) 1272/2008 and Their Amendments.
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**Abbreviations:**

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**EU:** European Union.

**CLP:** Regulation in the European Union through Classification and Labelling of Chemicals.

**TSCA:** Toxic Substances Control Act.

**OSHA HCS:** Occupational Safety and Health Act, Hazard Communication Standard (USA).

**GHS:** Globally Harmonized System of Classification and Labelling of Chemicals.

**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.

**PBT:** Persistent, Bioaccumulative and Toxic

**vPvB:** very Persistent and very Bioaccumulative.

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