

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

1.1 Product identifier	
Product name:	LOGENEST LAMBDA NFL-N164C
Product code:	None.
SDS No.	M-8306
1.2 Relevant identified uses of	the substance or mixture and uses advised against
Use of the	Lubricating solution 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 supplier of the supplier of the supplication of the	he safety data sheet
Company name:	NIPPECO LTD.
Address:	No385-14 SHIINOMORI SODEGAURA CHIBA 299-0247 JAPAN
Telephone number:	+81-438-60-2180
1.4 Emergency telephone num	nber

+81-438-60-2180

# SECTION 2 HAZARDS IDENTIFICATION

### 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.		

# SAFETY DATA SHEET



	Hazardous to the aquatic environment -Chronic (long term) aquatic toxicity:
	The hazards without the above mention are "Not applicable" or "Classification not possible".
Classification(OSHA HCS 29 C	FR 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	Thermal decomposition may produce toxic products including perfluoroisobutylene and
not result in classification:	hydrogen fluoride.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mix	ature	Mixture						
Ingredient(s):								
Chemical name / generic name	CAS#	EC#	Wt%	EU Hazard class	EU Category code	USA OSHA PEL	ACGIH TLV	EU ILV
Solvent (Hydro	Confidential	Confidential	>75	None	None	Not established	Not established	Not
Fluoro Ether)								established
Perfluorinated	Confidential	Confidential	<15	None	None	Not established	Not established	Not
polyethers base oil								established
Poly tetra fluoro	Confidential	Confidential	<10	None	None	Not established	Not established	Not
ethylene thickener								established
A J J.4:			4	N	N	Not established	Not established	Not
Additive	Confidential	Confidential	<1	None	None			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#:

S#: 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

JUNES					
es					
Remove exposed person to fresh air if adverse effects are observed.					
Wash with soap and water. Get medical attention if irritation develops.					
Flush immediately with water for at least 15 minutes. Get immediate medical attention. Do not make person vomit unless directed to do so by medical personnel.					
					No action shall be taken involving any personal risk or without suitable training.
l effects, both acute and delayed					
See SECTION 11 for more detailed information on health effects and symptoms.					
edical attention and special treatment needed					
Treatment should in general be symptomatic and directed to relieving any effects.					
MEASURES					
Use water fog, foam, dry chemical or carbon dioxide to extinguish flames.					
DO NOT use forcible water. See SECTION 11 for more detailed information on health effects					
and symptoms.					
ne substance or mixture					
In a fire or if heated, a pressure increase will occur and the container may burst.					
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> . PFIB (Perfluoloisobutylene)					
Decomposition at flame temperatures may form toxic fluorine compounds. Avoid breathing					
decomposition products.					
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.					
Fire-fighters should wear appropriate protective equipment and self-contained breathing					
apparatus with a full face-piece operated in positive pressure mode.					
apparatus with a full face-piece operated in positive pressure mode.					

personnel:

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.

6.3 Methods and material for containment and cleaning up

No.M-8306

SAFETY DATA SHEET



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.		
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.		
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.		

# SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling				
Protective measures:	Put on appropriate personal protective equipment (see SECTION8).			
Advice on general	Workers should wash hands and face before eating, drinking and smoking. Avoid contact			
occupational hygiene:	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.			
7.2 Conditions for safe storage, inc	luding 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.			
Not suitable:	Prolonged exposure to elevated temperature.			
7.3 Specific end use(s)				
	No further relevant information available.			

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	
	No exposure limit value known on the product itself.
	OHSA PEL: Not established
	ACGIH TLV: Not established
	NIOSH REL: Not established
	EU ILV: Not established
8.2 Exposure controls	
Appropriate engineering	When mist is generated, the limited part should be ventilated.
controls:	A washing facility/water for eye and skin cleaning purposes should be present.
Individual protection measure	s, such as personal protective equipment

No.M-8306

SAFETY DATA SHEET



Eye/face protection:	Ø	Required	Not required	Wear safety glasses with side shields.		
Skin(hand/other) protection:	V	Required	□ Not required	To prevent contact, wear impervious clothing		
				such as gloves, apron.		
<b>Respiratory protection:</b>		Required	☑ Not required	No special respiratory protection equipment is		
				required under normal conditions of use with		
				adequate ventilation.		
				In case of insufficient ventilation, wear suitable		
				respiratory equipment.		
Thermal hazards:		Required	☑ Not required	Not normally required.		
Environmental exposure	Ave	oid release to	the environment.			
controls:						

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Appearance:	Light milky-white, liquid
Odor:	Bland odor
Odor threshold:	Not determined.
pH:	Not determined.
Melting point/ freezing	-135 (Solvent)
point(°C):	
Initial boiling point and	61 (Solvent)
boiling range (°C):	
Flash point(°C):	Not applicable.
Evaporation rate:	Not determined.
Upper/lower flammability or	Not determined.
explosive limits:	
Vapor pressure:	0.028 MPa [25°C] (Solvent)
Vapor density:	c.a. 8.6 [Ref Std. AIR=1] (Solvent)
Relative density:	Not determined.
Density/specific gravity:	Ca. 1.52 (25°C)
Solubility(ies):	Negligible (in water).
Partition coefficient: n-	Not determined.
octanol/water:	
Auto-ignition	Not determined.
temperature(°C):	
Decomposition	Not determined.
temperature(°C):	
Viscosity(m Pa s):	Not determined.
Explosive properties:	Not determined.
Oxidizing properties:	Not determined.



### 9.2 Other information

No further relevant information available.

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SECTION 10 STABILITY AND	REACTIVITY			
10.1 Reactivity	No specific test data available for this product.			
10.2 Chemical stability	☑ Stable			
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 H2O2, permanganates and perchlorates.			
	Halogens and halogenated compounds.			
10.6 Hazardous decomposition pro	ducts			
	Carbon oxides (CO, CO <sub>2</sub> ), HF,COF <sub>2</sub> . PFIB (Perfluoloisobutylene)			
	Decomposition at flame temperatures may form toxic fluorine compounds.			
SECTION 11 TOXICOLOGICA	AL INFORMATION			
11.1 Information on toxicological ef	fects			
Likely routes of exposure:	Eye contact, skin, ingestion.			
Symptoms related to the physic	al, 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:	Solvent, 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	No known significant effects or critical hazards.			
exposure:				
Specific target organ systemic toxicity following repeated	No known significant effects or critical hazards.			
exposure:				

SAFETY DATA SHEET



Aspiration hazard: Other information: No known significant effects or critical hazards. No further relevant information available.

SECTION 12 ECOLOGICAL INFORMATION

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 asse	essment
	Not applicable.
12.6 Other adverse effects	No additional information available.

### SECTION 13 DISPOSAL CONSIDERATIONS

### 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.

# SECTION 14 TRANSPORT INFORMATION

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.

# SECTION 15 REGULATORY INFORMATION

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

EU information	
(EC)1907/2006	
Title VII:	Not regulated.
(EC)1907/2006	
Title VIII:	Not regulated.

SAFETY DATA SHEET



(EC)1005/2009:	Not regulated.	
(EC)805/2004:	Not regulated.	
(EU)649/2012:	Not regulated.	
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

### 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.

#### Abbreviations:

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.