

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

1.1 Product identifier				
Product name:	LOGENEST LAMBDA RAN-12			
Product code:	None.			
SDS No.	M-3071			
1.2 Relevant identified uses o	f 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 t	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 nu	mber			

+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.		



	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	Oil mist or vapors from this material at high temperatures(above 260°C) may irritate respiratory					
not result in classification:	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

Mixture

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

Carcinogen:

Substance/mixture

	Chemical name: None.	CAS#:	Reference:		
No component of this product is liste	d as a human carcinogen or	a potential carci	inogen in IARC Monographs,	U.S. NTP,	OSHA
regulation, and Annex VI of Regula	ation (EC) 1272/2008.				
PBT substance and vPvB subs	tance:				
	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					
Inhalation:	Remove exposed person to fresh air if adverse effects are observed.				
Skin:	Wash with soap and water. Get medical attention if irritation develops.				
Eye:	Flush immediately with water for at least 15 minutes. Get immediate medical attention.				
Ingestion:	Do not make person vomit unless directed to do so by medical personnel.				
Protection of first-aiders:	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					
Suitable extinguishing media:	Use water fog, foam, dry chemical or carbon dioxide to extinguish flames.				
Unsuitable extinguishing	DO NOT use forcible water. See SECTION 11 for more detailed information on health effects				
media:	and symptoms.				
5.2 Special hazards arising from th	e substance or mixture				
Hazards from the substance	In a fire or if heated, a pressure increase will occur and the container may burst.				
or mixture:	Formation of toxic gases is possible during heating or in case of fire.				
Hazardous combustion	Combustion products may include the following:				
products:	Carbon oxides (CO, CO ₂), HF, COF ₂ .				
	Decomposition at flame temperatures may form toxic fluorine compounds. Avoid breathing				
	decomposition products.				
5.3 Advice for firefighters					
Special precautions for	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a				
fire-fighters:	fire. No action shall be taken involving any personal risk or without suitable training.				
Special protective equipment	Fire-fighters should wear appropriate protective equipment and self-contained breathing				
for fire-fighters:	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			
For non-emergency	Eliminate all ignition sources. Evacuate surrounding areas.		
personnel:			
For emergency responders:	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 cont	tainment 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.					
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	rage, 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.					
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

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Appropriate engineering controls:	When mist is generated, the limited part should be ventilated. A washing facility/water for eye and skin cleaning purposes should be present.			
Individual protection measures	, such	n as persona	l protective equipment	
Eye/face protection:	Ø	Required	□ Not required	Wear safety glasses with side shields.
Skin(hand/other) protection:	\mathbf{N}	Required	□ Not required	To prevent contact, wear impervious clothing
				such as gloves, apron.
Respiratory protection:		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	Avo	oid release to	the environment.	
controls:				

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Smooth, white, semi-solid.
Odor:	Odorless.
Odor threshold:	Not determined.
pH:	Not determined.
Melting point/ freezing	Not determined.
point(°C):	
Initial boiling point and	Undetermined.
boiling range (°C):	
Flash point(°C):	Not applicable.
Evaporation rate:	Not determined.
Upper/lower flammability or	Not determined.
explosive limits:	
Vapor pressure:	Not determined.
Relative density:	Not determined.
Density/specific gravity:	Ca. 1.9 (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.

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Explosive properties: Oxidizing properties: Not determined.

Not determined.

9.2 Other information

No further relevant information available.

1 Reactivity	No specific test data available for this product.
2 Chemical stability	☑ Stable □ Unstable
3 Possibility of hazardous reaction	ons
· · · · · · · · · · · · · · · · · · ·	□ May Occur ☑ Will not occur
4 Conditions to avoid	Heat, sparks, flames, and other ignition sources.
5 Incompatible materials	Acids. Oxidizing agents such as H ₂ O ₂ , permanganates and perchlorates.
	Halogens and halogenated compounds.
6 Hazardous decomposition pro	
	Carbon oxides (CO, CO ₂), HF,COF ₂
	Decomposition at flame temperatures may form toxic fluorine compounds.
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CTION 11 TOXICOLOGIC	AL INFORMATION
1 Information on toxicological e	ffects
Likely routes of exposure:	Eye contact, skin, ingestion.
	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: rats LD50: > 2000 mg/kg(Base oil)
-	Dermal: rats LD50:> 2000 mg/kg(Base oil)
	Inhalation (vapor): No data available.
	Inhalation (mist): No data available.
Skin corrosion/irritation: Serious eye damage/ irritation:	No known significant effects or critical hazards.
	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.
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Carcinogenicity:	Base oil, Thickener, Additives: Not listed by IARC, USHA, NTP, EU and ACGIH.
Carcinogenicity: Toxic to reproduction:	Base oil, Thickener, Additives: Not listed by IARC, OSHA, NTP, EU and ACGIH. No known significant effects or critical hazards.

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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.

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	ssment
	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	o 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

Not regulated.

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Title VII:	
(EC)1907/2006 Title VII:	Not regulated.
(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 contr	ol 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 INFORM	MATION
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No additional information available.
August 19, 2016
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.

- 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.