## SAFETY DATA SHEET



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

#### 1.1 Product identifier

Product name: LOGENEST LAMBDA DR

**Product code:** None.

**SDS No.** M19-097

#### 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 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 number

+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 liquids:	Not classified.		
	Pyrophoric liquids:	Not classified		

Self-heating substances and mixtures: Not classified.

Corrosive to metals: Not classified.

Health hazards: Acute toxicity-Oral: Classification not poss

ealth 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

Poposited exposure:

Classification not possible.

-Repeated exposure: Classification not possible.

Classification not possible.

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Aspiration hazard:



**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 Thermal decomposition may produce toxic products including perfluoroisobutylene and

**not result in classification:** hydrogen fluoride.

#### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture Mixture

Ingredient(s):

Ingredicité(b).								
Chemical name	CAS#	EC#	Wt%	EU	EU	USA	ACGIH	EU
/ generic name				Hazard class	Category code	OSHA PEL	TLV	ILV
Fluoro inactive	Confidential	Confidential	>90	None	None	Not established	Not established	Not
solvent								established
Fluoric binder	Confidential	Confidential	<5	None	None	Not established	Not established	Not
Solid lubricant agent								established
Additive agant								

## 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

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

media:

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 the 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<sub>2</sub>), HF, COF<sub>2</sub>. PFIB (Perfluoloisobutylene)

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** Fire-fighters should wear appropriate protective equipment and self-contained breathing

**equipment 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 containment and cleaning up

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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 with

occupational hygiene: 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, 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

**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 measures, such as personal protective equipment

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Eye/face protection:	☑ Required □ Not required	Wear safety glasses with side shields.
Skin(hand/other) protection:	$lacktriangleq$ Required $\Box$ 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	Avoid release to the environment.	
controls:		
SECTION 9 PHYSICAL AND	CHEMICAL PROPERTIES	
9.1 Information on basic physical	and chemical properties	
Appearance:	Creamy white, liquid	
Odor:	Ether odor	
Odor threshold:	Not determined.	
рН:	Not determined.	
Melting point/freezing	Not determined.	
point(°C):		
Initial boiling point and		
boiling range (°C):	55~115℃	
Flash point(°C):	Not applicable.	
Evaporation rate:	Not determined.	
Upper/lower flammability	Not determined.	
or explosive limits:		
Vapor pressure:	Not determined.	
Vapor density:	Not determined.	
Relative density:	Not determined.	
Specific gravity:	1.3~1.5(g/cm <sup>3</sup> )	
Solubility(ies):	Negligible (in water).	
Partition coefficient: n-	Not determined.	
octanol/water:		
Auto-ignition	Not determined.	
temperature( $^{\circ}$ C):		
Decomposition	Not determined.	
temperature( $^{\circ}$ C):		
Viscosity(m Pa s):	Not determined.	
Explosive properties:	Not determined.	
Oxidizing properties:	Not determined.	

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9.2 Other information			
	No further relevant information available.		
SECTION 10 STABILITY AN	ND REACTIVITY		
10.1 Reactivity	No specific test data available for this product.		
10.2 Chemical stability	☑ Stable □ Unstable		
10.3 Possibility of hazardous reac	etions		
	☐ 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 p	roducts		
	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 TOXICOLOGIC	CAL INFORMATION		
11.1 Information on toxicological	effects		
Likely routes of exposure:	Eye contact, skin, ingestion.		
Symptoms related to the phys	sical, chemical, and toxicological characteristics:		
	See SECTION 4 for skin contact, eye contact, and ingestion.		
Delayed and immediate effect	ts and also chronic effects from short and long term exposure:		
	Not applicable.		
Numerous measures of toxici	ty:		
	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:	No known significant effects or critical hazards.		
Toxic to reproduction:	No known significant effects or critical hazards.		
Specific target organ systemic toxicity following	No known significant effects or critical hazards.		
single exposure:			
Specific target organ systemic toxicity following	No known significant effects or critical hazards.		
repeated exposure:			

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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 degradabilit	$\mathbf{y}$
	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 ass	sessment
	Not applicable.
12.6 Other adverse effects	No additional information available.
SECTION 13 DISPOSAL CO	NSIDERATIONS
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 I	NFORMATION
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not regulated.
14.3 Transport hazard class(es)	Not regulated
	100 regulated.
14.4 Packing group	Not regulated.
14.4 Packing group 14.5 Environmental hazards	
14.5 Environmental hazards	Not regulated.
14.5 Environmental hazards	Not regulated.  □ Yes Chemical name (wt%) □ No
14.5 Environmental hazards Marine pollutant:  14.6 Special precautions for user	Not regulated.  □ Yes Chemical name (wt%) □ No
14.5 Environmental hazards Marine pollutant:  14.6 Special precautions for user	Not regulated.  U Yes Chemical name (wt%)  No Not applicable.
14.5 Environmental hazards Marine pollutant:  14.6 Special precautions for user	Not regulated.  Yes Chemical name (wt%)  No  Not applicable.  to Annex II of MARPOL 73/78 and the IBC Code
14.5 Environmental hazards Marine pollutant:  14.6 Special precautions for user	Not regulated.  Yes Chemical name (wt%)  No  Not applicable.  to Annex II of MARPOL 73/78 and the IBC Code  Not applicable.
14.5 Environmental hazards Marine pollutant:  14.6 Special precautions for user 14.7 Transport in bulk according  SECTION 15 REGULATORY	Not regulated.  Yes Chemical name (wt%)  No  Not applicable.  to Annex II of MARPOL 73/78 and the IBC Code  Not applicable.
14.5 Environmental hazards Marine pollutant:  14.6 Special precautions for user 14.7 Transport in bulk according  SECTION 15 REGULATORY  15.1 Safety, health and environmental programmental information	Not regulated.  Yes Chemical name (wt%)  No  Not applicable.  To Annex II of MARPOL 73/78 and the IBC Code  Not applicable.
14.5 Environmental hazards Marine pollutant:  14.6 Special precautions for user 14.7 Transport in bulk according  SECTION 15 REGULATORY  15.1 Safety, health and environmental	Not regulated.  Yes Chemical name (wt%)  No  Not applicable.  To Annex II of MARPOL 73/78 and the IBC Code  Not applicable.
14.5 Environmental hazards Marine pollutant:  14.6 Special precautions for user 14.7 Transport in bulk according  SECTION 15 REGULATORY  15.1 Safety, health and environmental information (EC) 1907/2006	Not regulated.  Yes Chemical name (wt%)  No Not applicable.  Ito Annex II of MARPOL 73/78 and the IBC Code  Not applicable.  Y INFORMATION  ental regulations/legislation specific for the substance or mixture

Not regulated.



(EC)1005/2009: Not regulated.

(EU)649/2012: Not regulated.

Others: No further relevant information available.

**USA** information

(EC)805/2004:

Information on the label under OSHA HCS

**Signal word:** Not required.

Hazard statement(s): Not required.

**Pictogram(s):** Not required.

**Precautionary** Not required.

statement(s):

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.

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**The date of preparation of** Not applicable.

the 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.

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- 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.

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