

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

1.1 Product identifier			
Product name:	PERMALUB EKO-4		
Product code:	None.		
SDS No.	M-8493		
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 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 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 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 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	Combustibility. Keep away from ignition sources such as heat/sparks/open flames.			
not result in classification:	Vapors from this product at high temperatures (above $150^{\circ}$ C) may irritate respiratory passages.			

#### 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
Synthetic silicone base oil	Confidential	Confidential	80-90	None	None	Not established	Not established	Not established
Lithium soap thickener	Confidential	Confidential	10-20	None	None	Not established	Not established	Not established
Additives	Confidential	Confidential	1-5	None	None	Not designated (Except the below)	Not designated (Except the below)	Not established
(Silicon dioxide)	7631-86-9	231-545-4	(1-5)	None	None	20mppcf,80(mg/m <sup>3</sup> )/%SiO <sub>2</sub>	Not established	Not established
(Graphite)	7782-42-5	231-955-3	(<1)	None	None	15mppcf (TWA)	2mg/m <sup>3</sup> (TWA)	Not established

# Carcinogen:

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:

Chemical name: None. CAS#:

No component of this product is a PBT or vPvB substance under Regulation (EC)1907/2006.

**Reference:** 



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 measur	es			
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:	
Hazardous combustion	Combustion products may include the following:
products:	Carbon oxides (CO, CO <sub>2</sub> ), SiO <sub>2</sub>
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 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			
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 measur	res, such as personal protective equipment

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Eye/face protection:	M	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:	Smooth, gray, semi-solid.
Odor:	Odorless.
Odor threshold:	Not determined.
рН:	Not determined.
Melting point/ freezing	Not determined.
point(°C):	
Initial boiling point and	Undetermined.
boiling range (°C):	
Flash point(°C):	>200 (SETA)
Evaporation rate:	Not determined.
Upper/lower flammability or	Not determined.
explosive limits:	
Vapor pressure:	Not determined.
Relative density:	Not determined.
Density/specific gravity:	Ca. 0.96 (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	

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No further relevant information available.

Reactivity	No specific test data available for this product.
Chemical stability	☑ Stable □ Unstable
Possibility of hazardous reaction	ons
·	□ May occur ☑ Will not occur
Conditions to avoid	Heat, sparks, flames, and other ignition sources.
Incompatible materials	Acids. Oxidizing agents such as $H_2O_2$ , permanganates and perchlorates.
<b>r</b> and <b>r</b> and <b>r</b>	Halogens and halogenated compounds.
Hazardous decomposition pro	
	Carbon oxides (CO, CO <sub>2</sub> ), SiO <sub>2</sub>
CTION 11 TOXICOLOGICA	AL INFORMATION
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 rats LD50: > 5000 mg/kg, (Base oil).
	Dermal : No data available
	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.
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.
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Vapors(formaldehyde may release )from this product at high temperatures( above  $150^{\circ}$ C) may irritate respiratory passages. So, use adequate ventilation when this product is heated at approximately  $150^{\circ}$ C and above in the presence of air.

Other information:

# 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 assessment Not applicable. No additional information available. 12.6 Other adverse effects

# 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%)	
Thur inc politicult.	☑ 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	Not regulated.

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Title VIII:	
(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	col act)
	Not regulated. All ingredients are listed.
Information on the label under	r 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.

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# SECTION 16 OTHER INFORMATION

# Other information No additional information available. Date of issue: December 15, 2016 The date of preparation of the Not applicable. SDS or the last change to it: Vot 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.

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.