

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
Product Name:	PERMALUB EKO-4		
Use of the product:	Lubricating grease.		
Product Code:	None.		
Company Name:	NIPPECO LTD.		
Address:	No385-14 SHIINOMORI SODEGAURA CHIBA 299-0247 JAPAN		
Telephone Number:	+81-438-60-2180		

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".		

	United States.
Hazard Pictogram(s):	No pictogram.
Signal Word:	No signal word.
Hazard Statement(s):	No hazard statement.
Precautionary Statement(s):	

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Prevention:	Not required.
Response:	Not required.
Storage:	Not required.
Disposal:	Not required.
Other Hazards:	Combustibility. Keep away from ignition sources such as heat/sparks/open flames.
	Vapors from this product at high temperatures (above 150°C) may irritate respiratory passages.

SECTION3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s):								
Chemical Name	CAS#	EC#	Wt%	EU	EU	USA	ACGIH	EU
/ Generic Name				Hazard class	Category code	OSHA PEL	TLV	ILV
Synthetic silicone base	Confidential	Confidential	80-90	None	None	Not	Not	Not
oil						established	established	established
Lithium soap	Confidential	Confidential	10-20	None	None	Not	Not	Not
thickener						established	established	established
Silicon dioxide	7631-86-9	231-545-4	1-5	None	None	20mppcf,80(Not	Not
						mg/m3)/%Si	established	established
						02		
Graphite	7782-42-5	231-955-3	<1	None	None	15mppcf	2mg/m ³	Not established
						(TWA)		established
Carringgon								
Carcinogen:	_							
Chemical Name: N	None.			CAS#:	Reference:			
No component of this	-			•	al carcinogen in IAR	C Monograph	s, U.S. NTP,	OSHA
regulation, and Anne	x VI of Reg	gulation (EC)	1272/200)8.				
PBT substance and	vPvB substa	ance:						
Chemical Name: None. CAS#: Category:								
No component of this product is a PBT or vPvB substance under Regulation (EC)1907/2006.								
SECTION 4 FIRS	ST AID ME	ASURES						
First Aid Measures	:							
Inhalation:		Remove	exposed	l person to fresh a	ir if adverse effects a	re observed.		_
Ingestion:		Do not make person vomit unless directed to do so by medical personnel.						
Eye:		Flush immediately with water for at least 15 minutes. Get immediate medical attention.			ion.			
Skin:		Wash with soap and water. Get medical attention if irritation develops.						
Note to Physician	s:	Treat symptomatically.						
			DEC					
		IG MEASUF	KES .					
Extinguishing Medi	a:							

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

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Unsuitable	DO NOT use forcible water.
Extinguishing Media:	
Special Fire	Wear self-contained breathing apparatus and protective clothing if involved in a fire of other
Fighting Procedures:	materials.
Unusual Fire and	Not known.
Explosion Hazards:	
Special Hazards Arising from the	he Substance or Mixture:
Hazardous Combustion	CO, CO_2, SiO_2
Products:	
Other Properties:	None.
Advice for firefighters:	None.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective	Eliminate all ignition sources. Evacuate surrounding areas.
equipment and emergency	
procedures:	
Environmental Precautions:	Should be prevented from contaminating soil or from entering sewage and drainage systems
	and bodies of water.
Methods and Material for	Sweep material and place in a disposal container. Dispose of via a licensed waste disposal
Containment and Cleaning up:	contractor.
Reference to Other Sections:	None.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling:	Put on appropriate personal protective equipment (see SECTION8). 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.
Conditions for Safe Storage,	Store in a cool, dry place with adequate ventilation. Keep away from open flames and high
Including Any Incompatibilities:	temperatures.
Specific End Uses:	Lubricating grease.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:	None.
Exposure Controls:	
Engineering Controls:	When mist is generated, the limited part should be ventilated.

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Personal Protection Equipment(s):

Respiratory Protection:		Required	☑ Not Required	Not ordinarily required.	
Eye/Face Protection:	V	Required	Not Required	Wear safety glasses.	
Skin Protection:	V	Required	Not Required	To prevent contact, wear impervious clothing	
				such as gloves, apron.	

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties:			
Appearance:	Smooth, gray, semi-solid.		
Odor:	Odorless.		
pH:	No data available.		
Boiling Point/Range(°C):	Not applicable.		
Melting Point/Range(°C):	Not applicable.		
Decomposition	Not applicable.		
Temperature(°C):			
Flash Point(°C):	>200 (SETA)		
Flammable (Explosive) Limits:	No data available.		
Autoignition Temperature(°C):	No data available.		
Flammability:	No data available.		
Explosive Properties:	Not applicable.		
Oxidizing Properties:	Not applicable.		
Vapor Pressure:	No data available.		
Vapor Density:	No data available.		
Density/Specific Gravity:	Ca. 0.96 (25°C)		
Water Solubility:	Negligible.		
Fat Solubility:	No data available.		
Partition Coefficient (n-Octanol/Water):	No data available.		
Percent Volatile(%):	No data available.		
Evaporation Rate:	Not applicable.		
Viscosity(m Pa s):	Not applicable.		
Other Information:	None.		

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	Not known.
Chemical Stability:	☑ Stable □ Unstable
Possibility of Hazardous	□ May Occur ☑ Will Not Occur
Reactions:	

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Halogens and halogenated compounds.



Conditions to Avoid:

Incompatible Materials:

Heat, sparks, flames, and other ignition sources.

Acids. Oxidizing agents such as H₂O₂, permanganates and perchlorates.

Hazardous Decomposition Products:

CO, CO₂, SiO₂

SECTION 11 TOXICOLOGICAL INFORMATION

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:	No data available.
Eye damage/ irritation:	No data available.
Sensitization-Respiratory:	No data available.
Sensitization-Skin:	No data available.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	Base oil, Thickener, Additives: Not listed by IARC, OSHA, NTP, EU and ACGIH.
Reproductive toxicity:	No data available.
Specific target organ toxicity -Single exposure:	No data available.
Specific target organ toxicity -Repeated exposure:	No data available.
Aspiration hazard:	No data available.
Others:	Vapors(formaldehyde may release) from this product at high temperatures(above 150° C)
	may irritate respiratory passages. So, use adequate ventilation when this product is heated
	at approximately 150°C and above in the presence of air.

SECTION 12 ECOLOGICAL INFORMATION

No data available.
No data available.
None.
None.

SECTION 13 DISPOSAL CONSIDERATIONS

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Waste Treatment Methods:

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

UN#:	None.
UN Proper Shipping Name:	None.
Transport Hazard Class(es):	None.
Packing Group:	None.
Environmental Hazards:	
Marine Pollutant:	□ Yes Chemical name (wt%)
	⊠ No
Special Precautions for User:	None.
Transport in bulk according to	None.
Annex II of MARPOL 73/78 and	
the IBC Code:	

SECTION 15 REGULATORY INFORMATION

EU Information:	
Classification(EC1272/2008):	See SECTION 2.
Hazardous Component(s):	None.
Specific Provisions in Relation to 1	Protection of Man or the Environment:
(EC)1005/2009:	Not regulated.
(EU)649/2012:	Not regulated.
(EC)1907/2006	
Title VII: (EC)1907/2006	Not regulated.
Title VIII:	Not regulated.
Others:	None.

USA Information:

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.
Hazardous Component(s):	Not required.
SARA Title III § 313:	

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Chemical Name: None.	Wt%:
California Proposition 65:	
Chemical Name: None.	Wt%:
SECTION 16 OTHER INFO	ORMATION
Other Information:	None.
Date of Issue:	November 5, 2015
Revised Date:	Not applicable.
Literature Reference:	
- U.S. Department of Labor, 29	
- U.S. Environmental Protectio	on Agency, 40CFR Part 372.
- U.S. Consumer Product Safe	ty Commission, 16CFR Part 1500.
- ACGIH, Threshold Limit Va	lues for Chemical Substances and Physical Agents and Biological Exposure Indices.
- U.S. Department of Health ar	nd Human Services National Toxicology Program, Annual Report on Carcinogens.
- World Health Organization I	International Agency for Research on Cancer, IARC Monographs on the
Evaluation on the Carcinoger	nic Risk of Chemicals to Humans.
- EU Regulation (EC) 1005/200	09, (EU) 649/2012, (EC) 1907/2006, (EC) 1272/2008 and their amendments.
Abbreviations:	
EU: European Union.	
CLP: Regulation in the Euro	pean Union through classification and labelling of chemicals.
OSHA HCS: Occupational S	afety and Health Act, Hazard Communication Standard (USA).
GHS: Globally Harmonized S	System of Classification and Labelling of Chemicals.
OSHA PEL: PEL (Permissib	le Exposure Limit) under Occupational Safety and Health Administration.
ACGIH TLV: TLV (Thresho	old Limit Value) under American Conference of Governmental Industrial Hygienists.
	lues for Occupational Exposure under EU Directive 91/322/EEC, 2000/39/EC and 2006/15/EC.
EU ILV: Indicative Limit Va	
EU ILV: Indicative Limit Val PBT: Persistent, Bioaccumula	ative and Toxic