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

Product Name:

HARMONIC GREASE SK-1.-1A

Product Code:

None

Company Name:

NIPPON KOYU LTD.

Address:

No22-5, 3 CHOME, NISHIROKUGO, OTA-KU, TOKYO, JAPAN

Telephone Number:

+81-3-3736-2554

Use of the product:

Lubricating grease

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

			_					
CAS#	EC#	Wt%	EU symbol	EU R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Confidential	Confidential	80-90	None	None	5mg/m ³	5mg/m ³	Not	None
Confidential	Confidential	5-15	None	None	Not established	Not established	Not established	None
	·	<10	None	None	Not established	Not established	Not	None
68412-26-0	270-180-5	<5	None	None	15 mg/m³TWA (Total dust	10 mg/m³TWA	established	None
	Confidential Confidential	Confidential Confidential Confidential Confidential	Confidential Confidential 80-90 Confidential Confidential 5-15	Confidential Confidential 80-90 None Confidential Confidential 5-15 None <10 None	Confidential Confidential 80-90 None None Confidential Confidential 5-15 None None 410 None None	Symbol R-Phrase OSHA PEL	Confidential Confidential 80-90 None None Smg/m³ 5mg/m³ (TWA) Confidential Confidential 5-15 None None None Not established Not established Sample of the confidential Solution of the confi	Confidential Confidential 80-90 None None Smg/m³ 5mg/m³ Not Confidential Confidential 5-15 None None None Not established Not established Confidential Confidential 5-15 None None None Not established Not established Confidential Confidential 5-15 None None None Not established Not established Confidential Confidential 5-15 None None None Not established Not established Confidential Confidential 5-15 None None None Not established Not established Established Confidential Confidential S-15 None None None None Not established Not est

Carcinogen:

Chemical Name:

CAS#:

Reference:

None

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 I to Directive 67/548/EEC.

Refined mineral base oil, by definition, is considered hazardous according to OSHA. Because it carries Threshold limit value(TLV) for mineral oil mist. Refined mineral base oil contain <3.0% DMSO extractable material.

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Smooth, Yellow, Grease, Sightly odor

Potential Health Effects and Symptoms:

Inhalation:

In application where vapors (caused by high temperature) or mists (caused by mixing or spraying) are

created, breathing may cause irritation of the nose and throat, headache, nausea and drowsiness.

Ingestion:

May cause abdominal discomfort, nausea, or diarrhea.

Date of Issue: June 10, 1996

Revised Date: November 30, 2006

Ver. 2005/10/28

No.M-7341	MATERIAL SAFETY DATA SHEET Page 2 of 6			
Eye:	May cause irritation.			
Skin:	May cause minimal skin irritation.			
Chronic Effects:	Not known			
Medical Conditions Generato be Aggravated by Expos				
SECTION 4 FIRST AID I	WEASURES			
First Aid Measures:				
Inhalation:	Remove exposed person to fresh air if adverse effects are 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.			
Skin:	Wash with soap and water. Get medical attention if irritation develops.			
Note to Physicians:	Treat symptomatically.			
SECTION 5 FIRE FIGHT	TING MEASURES			
Fire Fighting Measures:				
Extinguishing Media:	Use water fog ,foam, dry chemical or carbon dioxide to extinguish flames.			
Unsuitable Extinguishing Media:	DO NOT use forcible water.			
Special Fire Fighting Procedures:	Self-contained breathing apparatus and protective clothing if involved in a fire of other materials.			
Unusual Fire and Explosion Hazards:	None			
Fire and Explosive Propertie	s (See also Section 9):			
Hazardous Combustion Products:	CO, CO ₂ , Oxides of sulfur			
Other Properties:	None			
	·			
SECTION 6 ACCIDENT	AL RELEASE MEASURES			
Personal Precautions:	Eliminate all ignition sources.			
Environmental Precautions				
-	bodies of water.			
Method for Cleaning Up:	Sweep material and place in a disposal container. Contain spilled liquid with sand or earth.			
	Vacuum or sweep up material and place in a disposal container.			
SECTION 7 HANDLING	AND STORAGE			
	heat or drill container. Replace cap or bung. Emptied container still contains hazardous material which the explosive violence if heated sufficiently. Minimum feasible handling temperatures should be			
· ·				

No.M-7341	MATERIAL SAFETY DATA SHEET Page 3 of 6							
-	maintained. P	eriods o	of exposure to	high temperatures sh	ould be minimized. Water contamination should be avoided.			
Storage:	Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.							
Specific				* *:				
Uses:	Lubricating g	rease						
SECTION 8	EXPOSURE	CONT	TROLS/PE	RSONAL PROTEC	TION			
F								
Exposure Guidelines: None								
Engineering (mist is gene	rated, the limited part i	s ventilated.			
Personal Prote			<u>.</u>					
- '	y Protection:	☒	Required	☐ Not Required	Wear a breathing mask.			
Eye/Face P		☑	Required	☐ Not Required☐ Not Required	Wear safety glasses.			
Skin Protec	ction:	V	Required		To prevent contact, wear impervious clothing such as			
					gloves,apron.			
SECTION 9	PHYSICAL	AND C	HEMICAL	PROPERTIES				
Appearance:			Smooth	, Yellow, Semi-Solid				
Odor:	:			Slightly odor				
pH:			No data	No data available				
Boiling Point/	Range(°C):		Not app	Not applicable				
Melting Point/Range(°C):		Not app	Not applicable					
Decomposition Temperature(°C):		Not app	Not applicable					
Flash Point(°C	C):		<200	<200 (SETA)				
Flammable (Explosive) Limits:		_No data	No data available					
Autoignition T	Temperature(°C):	No data	No data available				
Flammability:		No data available						
Explosive Properties:		Not app	Not applicable					
Oxidizing Pro	perties:		Not app	licable				
Vapor Pressur	re:		No data	available				
Vapor Density	nsity: No data available			available				
Density/Specif	cific Gravity: Ca. 0.92			2				
Water Solubili	r Solubility:		No data	No data available				
Fat Solubility: Partition Coefficient (n-Octanol/Water):		_No data	No data available					
		No data	No data available					
Percent Volati	le(%);		No data	No data available				
Evaporation R								

Date of Issue: June 10, 1996

Revised Date: November 30, 2006

No.M-7341	MATERIAL SAFETY DATA SHEET	Page 4 of 6					
Viscosity(m Pa s):	Not applicable						
	·						
SECTION 10 STABILIT	Y AND REACTIVITY						
	2						
Stability:	☑ Stable □ Unstable						
Conditions to Avoid:	See SECTION 7 HANDLING AND STORAGE	See SECTION 7 HANDLING AND STORAGE					
Materials to Avoid:	Acids. Oxidizing agents such as H ₂ O ₂ , permanganates and perrchlorates.						
	Halogens and halogenated compounds.	Halogens and halogenated compounds.					
Hazardous Decomposition	n ·						
Products:	CO, CO ₂ Hydrogen sulfide and sulfides may also be released.	CO, CO ₂ Hydrogen sulfide and sulfides may also be released.					
Hazardous Polymerizatio	n: May Occur Will Not Occur	☐ May Occur ☑ Will Not Occur					
Conditions to Avoid:							
SECTION 11 TOVICOL	OCICAL INFORMATION						
	OGICAL INFORMATION						
Acute Toxicity: Inhalation: No data a	مامالمالم						
	vailable						
	a available						
Skin: No data a	ıvailable						
Sensitization:							
	No data available						
Mutaganicitus	No data available						
Mutagenicity:	No data available						
Reproductive Toxicity:	·						
Carcinogenicity:	No data available						
Others:	None						
SECTION 12 ECOLOGI	CALINFORMATION						
Mobility:	No data available						
Persistence/Degradability	No data available	-					
Bioaccumulation:	No data available						
Ecotoxicity:	No data available						
Other Adverse Effects:							
SECTION 13 DISPOSAL	CONSIDERATIONS						
Method of Disposal:	Place contaminated materials in disposable containers and dispose of in a manner con	nsistent with					
		71770					

Date of Issue: June 10, 1996

No.M-7341

MATERIAL SAFETY DATA SHEET

Page 5 of 6

	applical	ole regulations. Contact local environmental or health authorities for a	pproved disposal of this				
	material.						
SECTION 14 TRANS	SPORT INF	ORMATION					
YINIII.	Nama	•					
UN#:	None						
UN Shipping Name:	None						
UN Classification: None							
UN Packing Group:	None	(10)					
Marine Pollutant:		Chemical name (wt%)					
Contain	☑ No						
Special Precautions:	_None		<u> </u>				
SECTION 15 REGUI	LATORY II	FORMATION					
EU Information:							
Information on the I	abel:		•				
Symbol & Indication	n:	Not required					
R-Phrase:		Not required					
S-Phrase:		Not required					
Dangerous Component(s):		None					
Special Precautions	sunder						
67/548/EEC Artic	cle 8 and 13						
or 1999/45/EC Annex V:		Not required					
Specific Provisions in	n Relation to	Protection of Man or the Environment:					
76/769/EEC:	Not regula	ted	<u> </u>				
(EC)2037/2000:	Not regula	ted					
(EC)304/2003:	Not regula	ted					
Others:	None						
USA Information:							
Information on the I							
Signal Word:	_	Not required					
_		Not required					
- · ·		Not required					
Hazardous Component(s):		Not required					
GADA MIS TO SEE							
SARA TitleIII, 313:							

No.M-7341

MATERIAL SAFETY DATA SHEET

Page 6 of 6

Chemical Name:		Wt%:
None		
California Proposition 65:		
Chemical Name:		Wt%:
None		·
<u> </u>		
SECTION 16 OTHER INFO	RMATION	
Other Information: No	ne	
Date of Issue: _June 10, 19	96	
Revised Date: November	30, 2006	
Literature Reference:		
- U.S. Department of Labor, 2	9CFR Part 1910	
- U.S. Environmental Protect	on Agency, 40CFR Part 372	
- U.S. Consumer Product Saf	ety Commission, 16CFR Part 1500	
- Safe Drinking Water and To	oxic Enforcement Act of 1986	
- Taitle III of the Superfund	Amendments and Reauthorization Act of 198	6

- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens

- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices

- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 88/379/EEC, 1999/45/EC and their amendments.
- EU Regulation (EC)3093/94, (EEC)2455/92 and their amendments.

Abbreviations:

EU: European Union

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 and 2000/39/EC

DFG MAK: MAK (Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft

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