

# Material Safety Data Sheet

## LUBRICATION OIL (MSDS:L010010-00-01-E)

### Section 1. Chemical product and company identification

**Common name** : Lubrication oil  
**Code** : L010010-00  
**Material uses** : Chain lubricant  
**Supplier/ Manufacturer** : Noritsu Koki Co Ltd, 579-1, Umehara, Wakayama-shi, 640-8550, Japan  
Emergency:+81 73 454 0309 Phone: +81 73 454 0309 Fax: +81 73 454 4618  
Email: msds@nkc.noritsu.co.jp  
**In case of emergency** : CHEMTREC, U.S. : (800) 424-9300 International: (703) 527-3887

### Section 2. Hazards identification

**Physical state** : Liquid.  
**Emergency overview** :  
NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.  
No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

**Potential acute health effects**  
**Eyes** : No known significant effects or critical hazards.  
**Skin** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

**Potential chronic health effects** : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.  
Mutagenic effects: Not available.  
Teratogenic effects: Not available.

**Medical conditions aggravated by over-exposure** : None known.  
See toxicological information (section 11)

### Section 3. Composition, Information on Ingredients

	CAS number	% by weight			
<b>United States</b>					
1-Naphthaleneamine, N-Phenyl-AR-(1,1,3,3-Tetramethylbutyl)-	68259-36-9	1 – 5			
<b>Canada</b>					
1-Naphthaleneamine, N-Phenyl-AR-(1,1,3,3-Tetramethylbutyl)-	68259-36-9	1 - 5			
<b>Mexico</b>					
	<b>UN number</b>	<b>IDLH</b>	<b>Classification</b>		
			<b>H F R Special</b>		
1-Naphthaleneamine, N-Phenyl-AR-(1,1,3,3-Tetramethylbutyl)-	Not regulated. -	-	0 1 0	68259-36-9	1 - 5

This material is classified hazardous under OSHA regulations in the United States, the WHMIS Controlled Product Regulation in Canada and the NOM-018-STPS-2000 in Mexico.  
See Sections 8, 11 and 14 for details.

## Section 4. First aid measures

- Eye contact** : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur.
- Inhalation** : Move exposed person to fresh air. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.

## Section 5. Fire fighting measures

- Flammability of the product** : May be combustible at high temperature.
- Flash point** : Open cup: >270°C (518°F) [Cleveland.]
- Flammable limits** : Lower: 0.9%  
Upper: 7%
- Products of combustion** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

- Personal precautions** : Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Prevent entry into sewers, water courses, basements or confined areas. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## Section 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist.
- Storage** : Store in accordance with local regulations. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure Controls, Personal Protection

**Engineering controls** : Use only in well-ventilated areas.

### Personal protection

**Eyes** : Safety goggles



**Respiratory** : Not required under normal conditions of use.

**Hands** : Disposable vinyl gloves.



**Skin/Body** : Not required under normal conditions of use.

**Personal protection in case of a large spill** : Same as above.

### Product name

1-Naphthaleneamine, N-Phenyl-AR-(1,1,3,3-Tetramethylbutyl)-

### Exposure limits

ACGIH TLV (United States).  
TWA: 5 mg/m<sup>3</sup>, (Oil mist) 8 hour(s).  
STEL: 10 mg/m<sup>3</sup>, (Oil mist.) 8 hour(s).  
OSHA PEL 1989 (United States).  
STEL: 10 mg/m<sup>3</sup>, (Oil mist.) 8 hour(s).  
PEL: 5 mg/m<sup>3</sup>, (Oil mist.) 8 hour(s).

### Product name

1-Naphthaleneamine, N-Phenyl-AR-(1,1,3,3-Tetramethylbutyl)-

### Canada

### Exposure limits

ACGIH TLV (United States).  
TWA: 5 mg/m<sup>3</sup>, (OIL mist) 8 hour(s).  
STEL: 10 mg/m<sup>3</sup>, (Oil mist.) 8 hour(s).

### Product name

1-Naphthaleneamine, N-Phenyl-AR-(1,1,3,3-Tetramethylbutyl)-

### Mexico

### Exposure limits

ACGIH TLV (United States).  
TWA: 5 mg/m<sup>3</sup>, (Oil mist) 8 hour(s).  
STEL: 10 mg/m<sup>3</sup>, (Oil mist.) 8 hour(s).

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and chemical properties

**Physical state** : Liquid.  
**Color** : Amber.  
**Molecular formula** : Not applicable.  
**Boiling/condensation point** : >316°C (>600.8°F)  
**Melting/freezing point** : -46°C (-50.8°F)  
**Vapor pressure** : <0.013 kPa (<0.1 mm Hg)  
**Vapor density** : >2 [Air = 1]  
**Viscosity** : Kinematic: 0.204 cm<sup>2</sup>/s (20.4 cSt)  
Kinematic (40°C): 1.8 cm<sup>2</sup>/s (180 cSt)

## Section 10. Stability and reactivity

- Stability and reactivity** : The product is stable.
- Incompatibility with various substances** : Reactive or incompatible with the following materials: oxidizing materials.
- Hazardous decomposition Products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## Section 11. Toxicological information

### Acute Effects

- Eyes** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Potential chronic health Effects** : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.  
Mutagenic effects: Not available.  
Teratogenic effects: Not available.

## Section 12. Ecological information

- Products of degradation** : Products of degradation: carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides(NO, NO<sub>2</sub> etc.).

## Section 13. Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Consult your local or regional authorities.

## Section 14. Transport information

### Classification

**Mexico/TDG/DOT/IMDG/IATA** : Not regulated.

**NAERG** : Not applicable.

### Label

Not applicable.

### Additional information

Not applicable.

## Section 15. Regulatory information

### United States

#### U.S. Federal regulations

- : **United States inventory (TSCA 8b):** All components are listed or exempted.
- SARA 302/304/311/312 extremely hazardous substances:** No products were found.
- SARA 302/304 emergency planning and notification:** No products were found.
- SARA 302/304/311/312 hazardous chemicals:** No products were found.
- SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** No products were found.
- Clean Water Act (CWA) 307:** No products were found.
- Clean Water Act (CWA) 311:** No products were found.
- Clean Air Act (CAA) 112 accidental release prevention:** No products were found.
- Clean Air Act (CAA) 112 regulated flammable substances:** No products were found.
- Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

#### State regulations

- : **Connecticut Carcinogen Reporting:** None of the components are listed.
- Connecticut Hazardous Material Survey:** None of the components are listed.
- Florida substances:** None of the components are listed.
- Illinois Chemical Safety Act:** None of the components are listed.
- Illinois Toxic Substances Disclosure to Employee Act:** None of the components are listed.
- Louisiana Reporting:** None of the components are listed.
- Louisiana Spill:** None of the components are listed.
- Massachusetts Spill:** None of the components are listed.
- Massachusetts Substances:** None of the components are listed.
- Michigan Critical Material:** None of the components are listed.
- Minnesota Hazardous Substances:** None of the components are listed.
- New Jersey Hazardous Substances:** None of the components are listed.
- New Jersey Spill:** None of the components are listed.
- New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.
- New York Acutely Hazardous Substances:** None of the components are listed.
- New York Toxic Chemical Release Reporting:** None of the components are listed.
- Pennsylvania RTK Hazardous Substances:** None of the components are listed.
- Rhode Island Hazardous Substances:** None of the components are listed.


### Canada

#### WHMIS (Canada)

- : Not controlled under WHMIS (Canada).
- CEPA Toxic substances:** None of the components are listed.
- Canadian ARET:** None of the components are listed.
- Canadian NPRI:** None of the components are listed.
- Alberta Designated Substances:** None of the components are listed.
- Ontario Designated Substances:** None of the components are listed.
- Quebec Designated Substances:** None of the components are listed.

### Mexico

#### Classification

- : 

1	0
0	0

## LUBRICATION GREASE (L010010-00-01-E)

### International regulations

#### International lists

: All components are listed on major international inventories or exempted from being listed in Australia (AICS), Europe (EINECS/ELINCS), Korea (TCCL), Japan (METI/MOL), Philippines (RA6969).

## Section 16. Other information

### Label requirements

: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

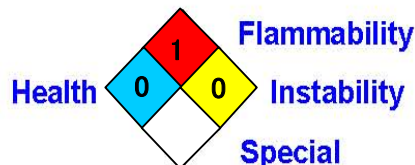
### Hazardous Material Information System (U.S.A)

:

Health	0
Fire hazard	1
Reactivity	0
Personal protection	B

### National Fire Protection Association (U.S.A.)

:



### References

: ANSI Z400.5, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2.Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 andNOM-004-SCT2-1994.

### Date of issue

: 04/16/2009

### Version

: 2

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.