

## Material Safety Data Sheet

### LUBRICATION GREASE (MSDS:L010118-00-03-E)

#### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Trade name : GREASE  
Code : L010118-00  
Material uses : BEARING LUBRICANT  
Supplier/ Manufacturer : Noritsu Precision Co., Ltd, 579-1, Umehara, Wakayama-shi, 640-8550, Japan  
Phone: +81 73 456 3969 Fax: +81 73 456 3991  
Email: msds@nkc.noritsu.co.jp  
In case of emergency : CHEMTREC, U.S. : (800) 424-9300 International: (703) 527-3887

#### Section 2: HAZARDS IDENTIFICATION

Hazards Category  
Reproductive Toxicity : Category 2  
Hazardous to The Aquatic Environment(Acute) : Category 3  
Hazardous to The Aquatic Environment(Chronic) : Category 3

The one without the description cannot be classified.

Allocation of Label Elements  
Pictogram  
Health Hazard



Signal Word  
Warning

Hazard Statement  
Suspected of damaging fertility or the unborn child  
May cause harm to breast-fed children  
Harmful to aquatic life  
Harmful to aquatic life with long lasting effects

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

##### Ingredients and Contents

Component name	CAS number	wt%
Synthetic oil	Trade secret	80 ~ 90
Mineral oil	Trade secret	< 1
Lithium soap	Trade secret	5 ~ 15
2,6-Di-tert-butyl-p-cresol	128-37-0	< 1

#### SECTION 4: FIRST-AID MEASURES

##### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a physician if you feel unwell.

##### Skin

Wash with plenty of soap and water.  
Call a physician if you feel unwell.

##### Eye

Immediately flush eyes with plenty of water for at least 15 minutes.  
Call a physician.

##### Ingestion

Rinse mouth. Do not induce vomiting.  
Call a physician.

## **SECTION 5: FIRE-FIGHTING MEASURES**

### Extinguishing Media

Dry chemical, carbon dioxide(CO<sub>2</sub>), and foam

### Specific Fire Fighting

Must not use water to extinguish fires.

Quickly removed from the surrounding flammable.

The use of extinguishing agents specified.

Fire fighting is done from the windward.

On small fires use carbon dioxide (CO<sub>2</sub>) or dry chemical.

On large fires use dry chemical or foam.

Sealed containers that are exposed to high temperatures over the water to cool.

### Protection for Fire-fighter

Wear full body protective clothing with breathing apparatus.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### Personal Precautions

Wear protective equipments in case of operation.

### Environmental Precautions

Avoid release to the environment.

### Methods for Cleaning Up

Remove potential ignition source in vicinity as soon as possible.

Prepare extinguishing agent.

Prevent leakage by enclosing with nonflammables and collect into empty container by scoop or the like.

Absorbed to non-flammable dry sand, if a large amount of spill to prevent enclosed in embankment.

Spilled material is collected in a container that can be sealed, then remove to safe place.

Deposits, waste treatment is based on the local regulations.

Working from the windward, to evacuate people downwind.

## **SECTION 7: HANDLING AND STORAGE**

### Handling

Use in a well ventilated area.

Keep away from heat, spark and flames.

Use spark-proof tools and explosion-proof equipment.

After handling, wash well hands and face and rinse your mouth.

Facilities storing or utilizing this material should be equipped with an eye wash facility and a safety shower.

Leakage, overflow, to prevent scattering, we do not generate steam in vain.

In the handling area and deny unnecessary entry.

Resting place shall not bring contaminated protective equipment such as gloves.

Wear protective equipments when risk of exposure occurs.

To work in an enclosed area that you work with appropriate protective equipment with a local exhaust ventilation sufficient.

### Precautions

Do not breathe vapor or mist.

Handling of the outdoors, as much as possible to work from the windward.

### Handling Precautions for Safety

Avoid physical damage to containers.

Keep containers securely sealed when not in use.

### Storage

Fire prohibited strictly.

Keep away from sources of ignition.

Store in a cool, dry, well-ventilated area away from incompatible substances.

Separate from oxidizing materials.

Store in a tightly closed container.

### Safe containers and packaging materials

None in particular.

## SECTION 8: EXPOSURE/PERSONAL PROTECTION

### Engineering Controls

Handling equipment is used explosion-proof.

Ventilation fans and other electrical service must be non-sparking and have an explosion-proof design. That the equipment and shall become hot, and the source of ignition in the vicinity of the location, such as handling not been placed.

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### Exposure Limit Values

Chemical name	ACGIH
Mineral oil	TWA 5mg/m <sup>3</sup> (mist)
2,6-Di-tert-butyl-p-cresol	TWA 2mg/m <sup>3</sup> (IFV)

### Personal Protective Equipment

#### Respiratory Protection

Wear a gas mask for organic gas as required.

#### Skin Protection

Oil-resistant gloves

#### Eye Protection

Wear chemical worker's goggles.

#### Skin and body protection

Such as long-sleeved work clothes

#### Hygiene measures

Do not eat, drink or smoke during work.

Replacement of the adsorbent, such as the mask is performed each time or use plans.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Semi-Solid
Color	:	Light brown
Odor	:	Oil odor
pH	:	Not available
Boiling Point (°C)	:	Not available
Melting Point (°C)	:	Not available
Flash point (°C)	:	220 (Base oil)
Auto-ignition Temperature (°C)	:	Not available
Flammability or Explosive Limits		
Lower	:	Not available
Upper	:	Not available
Vapor Pressure (KPa)	:	Not available
Vapor Density	:	Not available
Relative density (g/cm <sup>3</sup> )	:	0.92
Solubility	:	Insoluble in water
Partition Coefficient: n-octanol/water	:	Not available
Decomposition Temperature (°C)	:	Not available

## SECTION 10: STABILITY AND REACTIVITY

### Stability

Stable under normal temperatures and pressures.

### Reactivity

No self-reactive

### Conditions to Avoid

Heat, flames, ignition sources and incompatibles.

### Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and other oxidized substances.

## SECTION 11: TOXICOLOGICAL INFORMATION

Chemical name	Acute toxicity (oral)	Acute toxicity (dermal)	Acute toxicity (inhalation: gas)	Acute toxicity (inhalation: vapour)	Acute toxicity (inhalation: dust, mist)	Skin corrosion / irritation	Serious eye damage / eye irritation
Synthetic oil	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Mineral oil	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Lithium soap	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
2,6-Di-tert-butyl-p-cresol	Not classified	Not classified	Not applicable	Not applicable	Classification not possible	Not classified	Category 2B

Chemical name	Respiratory/skin sensitizer	Germ cell mutagenicity	Carcinogenicity	Toxic to reproduction	Specific target organs/systemic toxicity following single exposure	Specific target organs/systemic toxicity following repeated exposure	Aspiration hazard
Synthetic oil	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Mineral oil	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Lithium soap	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
2,6-Di-tert-butyl-p-cresol	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Category 2	Category 1 (nervous system)	Category 2 (lung, liver)	Classification not possible

## SECTION 12: ECOLOGICAL INFORMATION

Chemical name	Hazardous to the aquatic environment (Acute)	Hazardous to the aquatic environment (Chronic)
Synthetic oil	Classification not possible	Classification not possible
Mineral oil	Classification not possible	Classification not possible
Lithium soap	Classification not possible	Classification not possible
2,6-Di-tert-butyl-p-cresol	Category 1	Category 1

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents /container in accordance with local/regional/national/international regulations.

## **SECTION 14: TRANSPORT INFORMATION**

UN Class

Not regulated.

UN No.

Not regulated.

Packing Group

Not regulated.

## **SECTION 15: REGULATORY INFORMATION**

Follow all regulations in your country.

## **SECTION 16: OTHER INFORMATION**

References

JIS Z 7253

GHS data-base (NITE)

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