

PRODUCT NAME: "Cartridge Grease Li"**MATERIAL SAFETY DATA SHEET****1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

CHEMICAL PRODUCT NAME:	Lubricating Grease
NAME OF MANUFACTURER / SUPPLIER	DAIZO COPORATION
NAME OF SECTION	PRODUCTION TECHNOLOGY DEPT. NICHIMOLY DIVISION
ADDRESS	2168, KAWAZUMA, GOKA-MACHI, SASHIMA-GUN, IBARAGI 306-0314, JAPAN
TELEPHONE NUMBER.	0280-84-1023
FAX NUMBER	0280-84-3208

2. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE Mixture

INGREDIENTS AND COMPOSITION

CHEMICAL NAME	Refined mineral oil	Lithium-Soap Thickener	Additives
COMPOSITION Mass %	75~85	5~15	1~10
CAS No.	64742-54-7	7620-77-1	—
UN NUMBER	—	—	—

3. HAZARDS IDENTIFICATION

CLASS NAME OF HAZARDOUS CHEMICALS FOR SDS IN JAPAN

Not Applicable

PHYSICAL AND CHEMICAL HAZARD

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ADVERSE HUMAN HEALTH EFFECTS

Harmful by inhalation and in contact with skin.

ENVIRONMENTAL EFFECTS

No relevant information found

4. FIRST-AID MEASURES

EYE CONTACT	Gently rinse the affected eyes with clean water for at least 15 minutes. And refer for medical attention.
SKIN CONTACT	Wash with Soap and Water.
INHALLATION	Not applicable because of semi-solid type.
INGESTION	Rinse mouth with water.

Do not induce vomiting—consult physician.

5. FIRE-FIGHTING MEASURES

FIRE-FIGHTING

1. In case of small fire, use dry chemical powder or carbon dioxide.
2. In case of large fire, foam spray is effective to stop flow-in of air.
3. Water may be effective for cooling, but may not effect extinguishment.
4. Keep personnel removed from and upwind fire.
5. Firefighters should wear proper protective equipment.
6. Evacuate personnel to safe area.

SPECIAL HAZARDS WITH REGARDS TO FIRE-FIGHTING MEASURES:

Toxic gases(carbon monoxide) will foam upon combustion.

EXTINGUISHING MEDIA :

Dry chemical powder, form or carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

1. Shut off all sources of ignition.
2. Prepare proper fire-extinguishing measures.
 - For the case of large release :
 - Evacuate non essential personnel
 - Wear proper protective equipment
 - Prevent spreads by sand, etc. and lead spill to safe zone and take up and place in container as much as possible.
 - Prevent spills from entering sewers, watercourses.
 - For the case of small release:
 - Absorb spill with sand, clothes and then place in waste containers and completely removed contamination by clothes.

7. HANDLING & STORAGE

HANDLING :

1. Keep away from flame, fire, or other heat
2. Avoid contact with personnel
3. Pay caution for ventilation and ignition.
4. Wear proper protective equipment for prevention of skin, or eye contact.
5. Pay caution for ventilation and source of ignition, because evaporation is heavier than air and trends to contaminate.
6. Follow all regulation in your country.

STORAGE :

1. Store in cool, dry, well-ventilated location.
2. Keep away from heat.
3. Keep away from reach of child.
4. Keep away from sunlight.
5. Keep at temperature below 40°C
6. Follow all regulation in your country.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

CONTROL PARAMETER	No relevant information found
ENGINEERING MEASURES	Good general ventilation should be sufficient for most conditions.
PERSONAL PROTECTIVE EQUIPMENT	
RESPIRATORY PROTECTION	For most conditions, no respiratory protection should be needed.
EYE PROTECTION	Wear safety glasses
PROTECTIVE WEAR	Wear long-sleeve working wear.
OTHERS	No precautions other than clean body-covering clothing should be needed.

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE	Semi-Solid
PHYSICAL STATE, FORM	Semi-Solid
COLOUR	Light Yellow
ODOUR	Mineral oil odor
DENSITY	0.95 g/mg ³
BOILING POINT (Refined mineral oil)	Over 250°C
MELTING POINT	185°C
SOLUBILITY IN WATER	Insoluble
SOLUBILITY IN ORGANIC SOLVENT	Miscible

10. PHYSICAL HAZARDS (STABILITY & REACTIVITY)

FLASH POINT (Refined mineral oil)	Over 200°C
AUTOIGNITION TEMPERATURE (Refined mineral oil)	Over 250°C
UPPER AND LOWER EXPLOSION LIMIT	Not applicable
FLAMMABILITY	Flammability
SPONTANEOUS COMBUSTIBILITY	Will not occur
REACTIVITY WITH WATER	Stable
OXIDIZIBILITY	Will not occur

SELF-REACTIVITY
STABILITY & REACTIVITY

Will not occur
This material is stable. Hazardous decomposition and polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

CORROSIVE AND IRRITANT PROPERTIES	No relevant information found
ALLERGENIC AND SENSITIZING EFFECTS	No relevant information found
ACUTE TOXICITY (Refined mineral oil)	5~15g/kg
CHRONIC TOXICITY	No relevant information found
CARCINOGENIC EFFECTS	No relevant information found
MUTAGENIC EFFECTS	No relevant information found
EFFECTS ON THE REPRODUCTIVE SYSTEM	No relevant information found
TERATOGENIC EFFECTS	No relevant information found

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY	This substance is not biodegradable.
BIOACCUMULATION	No relevant information found
FISH TOXICITY	No relevant information found

13. DISPOSAL CONSIDERATION

1. Do not dump into sewers, on the ground or into any body of water.
Disposal shall be in accordance with the concerned rules and regulation.
2. Follow all regulation in your country.

14. TRANSPORT INFORMATION

Follow all regulation in your country.

15. REGULATORY INFORMATION

Follow all regulation in your country.

16. OTHER INFORMATION

All materials may present unknown hazard and should be used in caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.