

Grease EP. NO.2 MSDS

SECTION 1:

Product name	HITACHI GREASE EP. NO.2
Product code	FNG-2713
Manufacturer	IDEMITSU LUBE (SINGAPORE) PTE LTD
Address	Singapore 37, Pandan Road, Singapore, 609280
Telephone	65-268-5888
Fax	65-265-5610

SECTION 2: Composition / Information on Ingredients

Chemical family	Lubricating grease.
Chemical name	Mixture of refined mineral oil, Li-soap and additives.
Formula	Not applicable
Hazardous ingredients	
CAS#	Refined mineral oil Confidential
ACGHITLV	TWA: oil mist 5mg/m ³
Contents	80-90%

SECTION 3: Hazards Identification

Class name of hazardous chemicals for SDS in Japan	Not applicable
Physical and chemical hazards	Combustible
Adverse human health effects	Prolonged and repeated contact may cause skin irritation.
Environmental effects	Not data available

SECTION 4: First-Aid Measures

Eyes	Immediately flush with water for at least 15 minutes. Get medical attention if eye irritation persists.
Skin	Remove excess with cloth or paper and wash area thoroughly with soap water
Ingestion	Consult a physician. Do not induce vomiting.
Inhalation	Keep the victim warm and quiet. Remove the victim from the contamination immediately to fresh air.
Note to physicians	Supportive care. Treatment based on judgement of the physician in response to reaction of the patient.

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SECTION 5: Fire Fighting Measures

Flammable properties	Flashpoint: 205°C Method: Seta flash method Flammable limits: LFL: Not applicable UFL: Not applicable
Autoignition temperature	No data available
Hazardous decomposition products	Thermal decomposition and combustion may produce may produce carbon monoxide and/or carbon dioxide.
Extinguish media	Dry chemical, Water fog, CO2, Foam, Sand/Earth Fire fighting
Instructions	Dense smoke. Fire fighter wear an approved self-contained breathing apparatus. Do not use water except fog.

SECTION 6: Accidental Release Measures

Procedure for clean-up	Transfer bulk of mixture into another container. Absorb residue with an inert material such as earth, sand and vermiculite. Sweep up and dispose solid waste in accordance with local, state and federal regulations.
Waste disposal	Dispose of in accordance with all applicable federal, state and local regulations.

SECTION 7: Handling and Storage

Handling	Contact to eye may cause irritation. Avoid contact to eye by using a safety glasses or shield. Contact to skin may cause irritation. Avoid contact to skin by wearing impervious gloves. Do not swallow. (Eating product cause diarrhea and vomiting.) Wear gloves to avoid injury in hands at opening the container. Keep out ieach of children.
Storage	Keep container closed until ready for use. Storage away from fire source or sunlight and in cool dry area.

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SECTION 8: Exposure Controls / Personal Protection

Control parameters	Refined mineral oil: ACGIH TLV: TWA: oil mist 5mg/m ³
Engineering measures	none
Personal protective equipment	
Respiratory protection	Good general ventilation should be sufficient for most condition.
Eye protection	Chemical safety goggles and if handled hot, full face shield.
Hand and body protection	Protective gloves, rubber or plastic oil resistant.
Other protective equipment	none

SECTION 9: Physical and Chemical Properties

Appearance	Yellowish brown paste.
Odour	Slight odour
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific gravity (H ₂ O =1)	0.92
Solubility in water	Negligible
Solubility in-----	Not applicable
Evaporation rate	Slower (n-ButylAcetate = 1)
pH	Not applicable
Freezing point	Not applicable
Boiling point	Not applicable
Viscosity	Not applicable
Melting point (Dropping point)	207°G

SECTION 10: Stability and Reactivity

Stability	Product is stable under normal condition. Avoid overheating.
Incompatibility	Strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.
Hazardous decomposition products	Carbon monoxide and dioxide from burning. Oxide of nitrogen, Lithium.
Hazardous polymerization	none
Reactivity with water	none

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SECTION 11: Toxicological Information

Corrosive and irritant properties	No data available.
Allergenic and sensitizing effects	No data available.
Acute toxicity	Refined mineral oil LD50: Acute oral 5g/kg< (rat)
Sub-chronic toxicity	No data available.
Chronic toxicity	Prolonged and repeated skin contact may cause irritation.
Carcinogenic effect	Not listed IARC, NTP and ACGIH.
Mutagenic effect	No data available.
Effect on the reproductive system:	No data available.
Teratogenic effects	No data available.

SECTION 12: Ecological Information

Biodegradability	No data available.
Bioaccumulation	No data available.
Fish toxicity	No data available.

SECTION 13: Disposal Considerations

Waste disposal method	Incinerate in accordance with applicable regulation. Material may be recovered and recycled.
Attention	Do not use pressure to empty this container. When empty, container may have vapor or product residue. Do not cut, puncture or welt on near the drum.

SECTION 14: Transport Information

DOT	Not applicable.
UN NO.	Not applicable.

SECTION 15: Regulatory Information

TSCA	All components are listed on the TSCA inventory. Regulatory information with regard to this substance in your country or your region should be examined by your own responsibility.
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SECTION 16: Other Information

NFPA ratings

Health 1
Flammability 1
Reactivity 0;
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme)
These values are obtained using the guidelines or published evaluation prepared by the National Fire Protection Association (NFPA).

The Safety Data Sheet for Chemical Products is provided to companies. That handle dangerous and toxic as reference information for safe handling. We recommend the companies to utilize the data upon understanding that the product handling requires appropriate treatment according to and conditions and should be done on your own responsibility. Therefor the data sheet itself constitute a guarantee of safety.