

MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: THK AFB-LF Grease
PRODUCT TYPE: Lubricating grease
MANUFACTURER'S NAME: THK CO.,LTD.
ADDRESS: 3-11-6, Nishi-Gotanda, Shinagawa-ku, Tokyo, Japan
TELEPHONE NUMBER: 03-5434-0322
EMERGENCY TELEPHONE NUMBER : 03-5434-0322
DATE PREPARED: Dec.27,2002

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURE: Base oil,thickener and additives
INGREDIENTS AND COMPONENTS(% by mass):
Base oil(Highly refined petroleum oil) approx. 80
Thickener(Lithium soap) approx. 15
Additives(EP agent, etc.) approx. 5

UN CLASS AND UN NUMBER:

SECTION 3. HAZARDS IDENTIFICATION

CLASS NAME OF HAZARDOUS CHEMICALS FOR SDS IN JAPAN: Not Applicable

SECTION 4. FIRST AID MEASURES

EYE CONTACT: Gently rinse the affected eyes with clean water for at least 15 minutes and consult an ophthalmologist.
SKIN CONTACT: Wash the affected area under running water using a mild soap.
INHALATION: Remove the victim from the contamination immediately to fresh air.
Call a physician if symptom persists.
INGESTION: Do not induce vomiting. Call a physician.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISH MEDIA: Dry chemical, Foam, Carbon Dioxide
FIRE FIGHTING PROCEDURE: Fire-fighters should wear self-contained breathing apparatus with full face piece operated in positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Shut off all sources of ignition. Absorb spill with inert materials(e.g.,dry sand or earth),then place in a chemical waste container with covers for disposal, using nonsparking tools.

SECTION 7. HANDLING AND STORAGE

HANDLING: Avoid direct contact with skin or eyes.
Use in the well-ventilated areas.
STORAGE: Should be kept tightly sealed and stored in doors out of direct sunlight.
Keep away from sources of heat, open flames and sparks.
Avoid long storage periods since the product degrades with age.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

EXPOSURE: The limit for mineral oil is TWA 5mg/m³ as oil mist by ACGIH.
ENGINEERING MEASURES: Do not use in areas without adequate ventilation.
EYE PROTECTION: Wear protective eyeglasses or chemical safety goggles if oil mist generated.
HAND,SKIN AND BODY PROTECTION: When prolonged or frequently repeated contact could occur , use protective clothing such as butyl rubber, impervious to this material.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Tan color, butter- like, mild odor
DENSITY (g/cm³) at 15 : About 0.90
SOLUBILITY IN WATER: Negligible
MELTING POINT : NA
DROPPING POINT : 193
BOILING POINT: NA(Not applicable) (High)

SECTION 10. STABILITY AND REACTIVITY

STORAGE STABILITY: This product is stable under normal storage.
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Carbon oxides, Sulfur oxides, Phosphorous compounds, Zinc oxides ,etc.
POLYMERIZATION: Will not occur
FLASH POINT (METHOD USED) : 188(Seta Close Cup)

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Inhalation No data as product
Oral No data as product
CORROSIVE AND IRRITANT PROPERTIES: If prolonged or repeated skin contact occurs, may cause skin irritation.
If eye contact occurs, may cause eye irritation.

SECTION 12. ECOLOGICAL INFORMATION

No known ecological data

SECTION 13. DISPOSAL CONSIDERATION

Waste must be disposed of in accordance with federal, state and local environment control regulations.

SECTION 14. TRANSPORT INFORMATION

Keep away from oxidizing materials and source of ignition.
Japan Fire Protection Law: Restrictd ignitable substance('Shitei Kanen-butu', Ignitable solid)
UN Recommendations on the Transport of Dangerous Goods: Non dangerous substance

Follow all regulations in your country.

SECTION 15. REGULATION INFORMATION

Follow all regulations in your country.

SECTION 16. OTHER INFORMATION

REFERENCES:

- 1) IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO HUMANS VOLUME 33
- 2) Material Safety Data Sheet guidebook(English) (Japan Chemical Industry Association Information Center)

This Material Safety Data Sheet was prepared on the basis of materials' information, and data obtained at present by our company. To the best of our knowledge, the information contained here in is accurate.

Final determination of suitability of all material is the sole responsibility of the user.

All materials may present unknown hazards and should be used in caution.

The information herein is given in good faith, but no warranty. express or implied, is made.