

# MATERIAL SAFETY DATA SHEET

## THK

### Section I Identification of the Substance/Preparation and Company

<u>Product Trade Name</u>	THK AFB
<u>Product Type</u>	Lubricating Grease.
<u>Family/Chemical Name</u>	Mixture (base oil, thickener & additives)
<u>Manufacturers Name</u>	Nippon Grease Co. Ltd.
<u>Address</u>	18-21, Chaya-machi, Kita-ku, Osaka, 530, Japan.

### Section II Composition/Identification on Ingredients

Highly refined petroleum oil ~ 85 mass % (5mg/m<sup>3</sup> as oil mist by OSHA)

Lithium Soap Thickener ~ 10 mass %

Additives ( anti-oxidant, anti-rust, EP agent )~ 5 mass %

### Section III Hazards Identification

Hazardous Components None

Human Health Hazards  
Inhalation - negligible  
Skin - possible  
Ingestion - will not occur

Health hazards  
May cause skin irritation if prolonged or repeated skin contact occurs.  
May cause eye irritation. Acute dermal, inhalation, oral toxicity's = no data

### Section IV First Aid Measures

Skin Immediately flush with soap and water.

Eyes Immediately flush with clean water for at least 15 minutes and consult anophthamologist.

Ingestion Do not induce vomiting. Call a physician.

Inhalation Carry the victim to a place where fresh air is available. Call a physician if symptom persists.

## **Section V Fire Fighting Measures**

<u>Flash Point</u> (method used)	Above 196° C (seta close cap)
<u>Flammable Limits</u>	LEL UEL - Not applicable.
<u>Extinguishing Media</u>	Dry Chemical, Foam, Carbon Dioxide.
<u>Special Fire Fighting Procedure</u>	For fires in enclosed areas, fire fighters must use self contained breathing apparatus.
<u>Unusual Fire &amp; Explosion Hazards</u>	None.

## **Section VI Accidental Release Measures**

<u>Steps to be taken in case material is released or spilled</u>	Remove sources of ignition. Scrape up and remove as much as possible and wipe off with rag etc. for disposal.
<u>Environmental Precautions</u>	Prevent entry into sewers and waterways.

## **Section VII Handling and Storage**

<u>Storage Precautions</u>	Should be kept tightly sealed and stored indoors out of direct sunlight. Keep away from sources of heat, open flames and sparks.
<u>Other Precautions</u>	No special requirement.

## **Section VIII Exposure Controls/Personal Protection**

<u>Respiratory Precaution</u> (specify type)	No special requirement.
<u>Ventilation</u>	General industrial requirement.
<u>Protective Gloves</u>	If prolonged or repeated skin contact occurs wear oil impervious gloves.
<u>Eye Protection</u>	General industrial eye protection if oil mist generates.

## Section IX Physical & Chemical Properties

<u>Appearance</u>	Butter-like	<u>Solubility in Water</u>	Negligible
<u>Colour</u>	Yellow/Brown	<u>Melting Point</u>	Not applicable (above 180°C) Dropping Point : 190°C
<u>Odour</u>	Mild	<u>Boiling Point</u>	Not applicable (high)
<u>Density at 18°C</u>	0.92g/cm	<u>Vapour Pressure</u>	Not applicable (low)
<u>Vapour Density</u>	Not applicable (higher than 1+Air)	<u>Flash Point</u>	Above 196°C

## Section X Stability/Reactivity

<u>Storage Stability</u>	Stable
<u>Incompatibility</u>	Strong Oxidising Agents
<u>Decomposition or by-products</u>	Carbon oxides, sulphur oxides, nitrogen oxides
<u>Polymerisation</u>	Will not occur

## Section XI Toxicological Information

<u>Basis for assessment</u>	Toxicological data has not been determined specifically for this product. Information given is based on a knowledge of the components and the toxicology of similar products.
<u>Acute Toxicity - oral</u>	LD50 expected to be > 200mg/kg.
<u>Acute Toxicity - dermal</u>	LD50 expected to be above 2000 mg/kg.
<u>Eye Irritation</u>	Expected to be slightly irritant.
<u>Skin Irritation</u>	Expected to be slightly irritant.
<u>Respiratory Irritation</u>	If vapours are inhaled, slight irritation of the respiratory tract may occur.
<u>Skin Sensitisation</u>	May cause skin sensitisation.

Carcinogenicity Product is based on mineral oils of types shown to be non-carcinogenicity in animal skin painting studies. Other components are not known to be associated with carcinogenic effects.

Mutagenicity Data not available.

Human Effects In the event of ingestion, shortness of breath, palpitations and, in extreme circumstances unconsciousness may be caused.

Other Information Prolonged and/or repeated contact with products containing mineral oils can result in defaulting of the skin, particularly at elevated temperatures. This can lead to irritation and possibly dermatitis, especially under conditions of poor personal hygiene. Skin contact should be minimised.

Used grease may contain harmful impurities that have accumulated during use. The concentration of such harmful impurities will depend on use and they may present risks to health and the environment on disposal. ALL used grease should be handled with caution and skin contact avoided as far as possible.

## **Section XII Ecological Information**

Degradability No data available.

## **Section XIII Disposal Considerations**

Waste Disposal Area Dispose of at an appropriate waste disposal facility in accordance with federal, state and local laws.

## **Section XIV Transport Information**

UN recommendations Non dangerous substance.

## **Section XV Regulatory Information**

Japan Fire Prevention Law Non dangerous substance

EC Safety Phrases

S24	Avoid contact with skin
S46	If swallowed, seek medical advice immediately and show the container or label.
S37	Wear suitable gloves.

## Section XVI Other Information

### Uses & Restrictions

A lubricating grease for use in lightly loaded rolling bearings.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.