# SAFETY DATA SHEET

# 1. Identification

Product identifier AFF GREASE

Other means of identification

**SDS number** 1030-T25002

Product code AFF

Recommended use Industrial lubricating grease (Package size 70gr and 400gr)

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

THK Co.,LTD

HEAD OFFICE: 2-12-10, Shibaura, Minato-ku, Tokyo 108-8506 Japan THK America, Inc.: 200 E. Commerce Drive, Schaumburg, IL 60173, U.S.A. Telephone: (847) 310-1111 (THK America) between the hours of 8 am - 5 pm

Emergency telephone: (847) 310-1111 (THK America) between the hours of 8 am - 5 pm

E-mail: chicago@thk.com, thk022@thk.co.jp

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2A

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Causes serious eye irritation.

Precautionary statement

**Prevention** Wear eye/face protection. Wash thoroughly after handling.

**Response** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Storage** Keep container tightly closed.

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

Hazard(s) not otherwise

classified (HNOC)

Not classified.

Supplemental information None.

## 3. Composition/information on ingredients

### **Mixtures**

Chemical name	CAS number	<u>%</u> 1-5	
N-1-naphthylaniline	Proprietary		
Diphenyl phosphonate	Proprietary	1-5	
Lithium stearate	Proprietary	10-30	

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**Composition comments** \* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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### 4. First-aid measures

**Inhalation** Move affected person into fresh air and keep warm. If breathing is difficult, give oxygen. Get

medical attention if any discomfort continues.

Skin contact Remove contaminated clothing. Wash with soap and water. Get medical attention promptly if

symptoms occur after washing.

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove contact lenses, if present and

easy to do. Get medical attention if irritation develops and persists.

**Ingestion** Immediately rinse mouth and drink plenty of water. Never give anything by mouth to an

unconscious person. Get medical attention if any discomfort continues.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Treat symptomatically. The effects might be delayed.

**General information** First aid personnel must be aware of own risk during rescue.

Irritant effects.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Extinguish with foam, carbon dioxide or dry powder.

Do not use water or halogenated extinguishing media.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterized.

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus, operated in positive pressure mode and full

protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Containers close to fire should be removed or cooled with water.

**General fire hazards** The product is not flammable.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Avoid inhalation of vapors and contact with skin and eyes. Wear necessary protective equipment. In case of spills, beware of slippery floors and surfaces.

Methods and materials for containment and cleaning up

Absorb spillage with non-combustible, absorbent material. Clean contaminated area with oil-removing material.

**Environmental precautions**Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment.

7. Handling and storage

Precautions for safe handling

Avoid prolonged and repeated contact with grease, particularly used grease. Always remove grease with soap and water or skin cleaning agent, never use organic solvents. Wear appropriate personal protective equipment. Be aware of potential for surfaces to become slippery. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep container in a well-ventilated place. Store away from incompatible materials.

# 8. Exposure controls/personal protection

# Occupational exposure limits

US. ACGIH Threshold Limit \
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Components	Туре	Value	Form
Lithium stearate	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.

Biological limit values No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** No exposure standards allocated.

Appropriate engineering

controls

Provide adequate ventilation and minimize the risk of inhalation of vapors and oil mist. Provide access to washing facilities including soap, skin cleanser and fatty cream.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety goggles.

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Skin protection

Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may Hand protection

penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the

glove supplier.

Skin protection

Other Wear appropriate clothing to prevent repeated or prolonged skin contact.

In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with Respiratory protection particulate filter and organic vapor cartridges can be used. If engineering controls do not maintain

airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air

purifying respirator limitations may be exceeded. Follow respirator protection program

requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

Thermal hazards When material is heated, wear gloves to protect against thermal burns.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective considerations

equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** Buttery. Solid. Physical state

> Paste. Soft, malleable. **Form**

Light yellow. Color

Slight. Odor

**Odor threshold** Not available. Not available. Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

Flash point Not available. Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Not available. Vapor pressure Not available. Vapor density Not available. Relative density

Solubility(ies)

Insoluble in water. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** Not available. **Viscosity** 

Other information

**Explosive properties** Not available. Not available. Oxidizing properties

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

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Possibility of hazardous

reactions

Will not occur.

Conditions to avoid Heat, sparks, flames, elevated temperatures.

Incompatible materials Oxidizing agents. Acids. Halogens. Halogenated compounds.

Hazardous decomposition

products

Carbon oxides. Aldehydes.

# 11. Toxicological information

Information on likely routes of exposure

Inhalation Inhalation of oil mist or vapors formed during heating of the product will irritate the respiratory

system and provoke coughing.

Skin contact Prolonged or frequent contact may cause redness, itching, irritation, eczema/chaps and oil acne.

Eye contact May cause eye irritation on direct contact. Ingestion Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

Skin irritation.

Information on toxicological effects

**Acute toxicity** 

Components **Species Test Results** 

N-1-naphthylaniline (CAS Proprietary)

Acute Oral

LD50 Rat 1625 mg/kg

Skin corrosion/irritation Causes mild skin irritation. May cause skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization None known. Skin sensitization None known. Germ cell mutagenicity None known. Carcinogenicity Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

**NTP Report on Carcinogens** 

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Reproductive toxicity None known. Specific target organ toxicity -None known.

single exposure

Specific target organ toxicity -

repeated exposure

None known.

**Aspiration hazard** Not classified. **Chronic effects** None known.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability None known.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

N-1-naphthylaniline 4.2

Mobility in soil None known.

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Mobility in general The product contains substances, which are insoluble in water and which may spread on water

surfaces.

Not available. Other adverse effects

# 13. Disposal considerations

**Disposal instructions** Dispose of in accordance with local regulations.

Not regulated. Hazardous waste code

Waste from residues / unused

products

Dispose in accordance with applicable federal, state, and local regulations. Dispose of in

accordance with local regulations.

Since emptied containers retain product residue, follow label warnings even after container is Contaminated packaging

emptied.

# 14. Transport information

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to

Not available.

Annex II of MARPOL 73/78 and

the IBC Code

# 15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

### SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

categories

Serious eye damage or eye irritation

# SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

#### **US. Massachusetts RTK - Substance List**

Not regulated.

# US. New Jersey Worker and Community Right-to-Know Act

Not listed.

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# US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

## **US. Rhode Island RTK**

Not regulated.

## California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date25-October-2013Revision date12-January-2018

Version # 02

Further information HMIS® is a registered trade and service mark of the NPCA. G - Safety Glasses, Gloves, Vapor

Respirator

HMIS® ratings Health: 2

Flammability: 0 Physical hazard: 0

**NFPA** ratings



### List of abbreviations

**Disclaimer** This information is provided without warranty. The information is believed to be correct. This

information should be used to make an independent determination of the methods to safeguard

workers and the environment.

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).