SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

AFB-LF GREASE

of the mixture

Registration number

Synonyms None.

SDS number 1030-T20483-2

Product number AFB-LF+70, AFB-LF+400

Issue date 17-February-2012

Version number 05

Revision date 13-March-2020 Supersedes date 18-May-2016

1.2. Relevant identified uses of the substance or mixture and uses advised against

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

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

THK Co.,LTD

HEAD OFFICE: 2-12-10, Shibaura, Minato-ku, Tokyo 108-8506 Japan THK GmbH: Kaiserswerther Strasse 115, D-40880 Ratingen, Germany

Telephone +49-(0)2102-7425-555 (THK GmbH)

E-mail info-msds@thk.eu (THK GmbH), thk022@thk.co.jp (THK Co., LTD)

1.4. Emergency telephone

number

+49-(0) 2102-7425-222 at workday 8 am - 5 pm (THK GmbH)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Hazard summary

Not classified for health hazards. However, occupational exposure to the mixture or substance(s)

may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None.

Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of containers in accordance with local authority requirements.

Supplemental label information None

2.3. Other hazards This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

Prolonged and repeated contact with used grease may cause serious skin diseases.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Conordi information					
Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Distillates (petroleum), solvent-dewaxed heavy paraffinic	25 - 30	Proprietary 265-169-7	-	649-474-00-6	
Classification: -					L

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Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Distillates (petroleum), hydrotreated heavy naphthenic	10 - < 20	Proprietary 265-155-0	-	649-465-00-7	
Classification: -					L
Distillates (petroleum), solvent-refined heavy naphthenic	10 - < 20	Proprietary 265-097-6	-	649-457-00-3	
Classification: -					L
Residual oils (petroleum), solvent-refined	10 - < 20	Proprietary 265-101-6	-	649-459-00-4	
Classification: -					L
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	3 - 4	Proprietary 272-028-3	-	-	
Classification: Skin Irrit. 2;F	1315, Eye I	rrit. 2;H319			

List of abbreviations and symbols that may be used above

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

The 4 petroleum substances in the product - distillates (petroleum), solvent-dewaxed heavy paraffinic, distillates (petroleum), hydrotreated heavy naphthenic, distillates (petroleum), solvent-refined heavy naphthenic and residual oils (petroleum), solvent-refined - contain less than 3 % DMSO extract as measured by IP 346.

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable limits. Due to the high viscosity the product is not an aspiration hazard.

Mild skin irritation. Prolonged or repeated contact with used oil may cause serious skin diseases,

SECTION 4: First aid measures

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

4.1. Description of 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 if irritation

develops and persists.

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Eye contact

Get medical attention promptly if symptoms occur after washing.

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

Treat symptomatically. The effects might be delayed.

unconscious person. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and

delayed

such as dermatitis.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

General fire hazards The product is not flammable. The product is non-combustible.

5.1. Extinguishing media

Suitable extinguishing

media

Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media

Do not use water or halogenated extinguishing media.

5.2. Special hazards arising

from the substance or mixture

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

5.3. Advice for firefighters

Special protective equipment for firefighters

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.

Special fire fighting procedures

Use standard firefighting procedures and consider the hazards of other involved materials. Containers close to fire should be removed or cooled with water.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face

protection. In case of spills, beware of slippery floors and surfaces.

For emergency responders 6.2. Environmental precautions

Use personal protection recommended in Section 8 of the SDS.

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

environment.

6.3. Methods and material for containment and cleaning up Absorb spillage with non-combustible, absorbent material. Clean contaminated area with

oil-removing material.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid contact with skin and eyes. 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.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s) Industrial lubricating grease.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

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

Recommended monitoring

procedures

Follow the schedule for work place measurements.

Derived no effect levels

(DNELs)

Not available.

Not available

Predicted no effect

concentrations (PNECs)

8.2. Exposure controls

Appropriate engineering

controls

Provide adequate ventilation and minimise the risk of inhalation of vapours and oil mist. Provide

access to washing facilities including soap, skin cleanser and fatty cream.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required. Keep working clothes separately. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Skin protection

Wear approved safety goggles.

- Hand protection

Wear protective gloves. Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement rules are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove manufacturer and model.

- Other

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection

In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with combination filter (type A2/P2) can be used.

Thermal hazards

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

Hygiene measures

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

equipment to remove contaminants.

AFB-LF GREASE SDS UK **Environmental exposure**

Contain spills and prevent releases and observe national regulations on emissions.

controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Buttery. **Appearance** Solid. Physical state Buttery. **Form** Colour Tan. Odour Mild

Odour threshold Not available. Not applicable. рH Not available. Melting point/freezing point Not available. Initial boiling point and boiling

range

188.0 °C (370.4 °F) Setaflash Closed Cup (ISO 3679) Flash point

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

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapour pressure Not available. Vapour density Not available.

0.9 Relative density

Not available. Solubility(ies) Not available. **Partition coefficient**

(n-octanol/water)

Not available. Auto-ignition temperature **Decomposition temperature** Not available. Not available. **Viscosity Explosive properties** Not explosive. **Oxidising properties** Not oxidising

9.2. Other information

Explosive limit Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity This product may react with strong oxidising agents.

10.2. Chemical stability Stable at normal conditions.

10.3. Possibility of hazardous

reactions

Will not occur.

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

10.5. Incompatible materials Strong oxidising agents.

Carbon oxides. Sulphur oxides. Phosphorus oxides. Formaldehyde. PAH (polycyclic aromatic 10.6. Hazardous

decomposition products hydrocarbons).

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

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

system and provoke coughing.

Mild skin irritation. Skin contact

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

Mild skin irritation. Prolonged or repeated contact with used oil may cause serious skin diseases, **Symptoms**

such as dermatitis.

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11.1. Information on toxicological effects

Acute toxicity The harmful effects may increase in used grease.

Skin corrosion/irritation Causes mild skin irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory sensitisation Due to lack of data the classification is not possible. Due to lack of data the classification is not possible. Skin sensitisation Germ cell mutagenicity Due to lack of data the classification is not possible.

Carcinogenicity Prolonged and repeated contact with used grease may cause serious skin diseases.

Reproductive toxicity Due to lack of data the classification is not possible. Specific target organ toxicity -Due to lack of data the classification is not possible.

single exposure

Due to lack of data the classification is not possible.

Specific target organ toxicity repeated exposure

Aspiration hazard

Based on viscosity, the product is not anticipated to be an aspiration hazard.

Mixture versus substance

information

The product is a mixture.

Other information

Not available.

SECTION 12: Ecological information

12.1. Toxicity 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.

12.2. Persistence and

degradability

None known.

12.3. Bioaccumulative potential None known. Partition coefficient Not available

n-octanol/water (log Kow)

Not available **Bioconcentration factor (BCF)** No data available. 12.4. Mobility in soil

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

12.5. Results of PBT and vPvB

assessment

This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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

emptied.

EU waste code 16 03 06

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods. Not available. 14.7. Transport in bulk

according to Annex II of MARPOL 73/78 and the IBC

Code

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (CAS Proprietary)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Distillates (petroleum), hydrotreated heavy naphthenic (CAS Proprietary)

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS Proprietary)

Distillates (petroleum), solvent-refined heavy naphthenic (CAS Proprietary)

Residual oils (petroleum), solvent-refined (CAS Proprietary)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Distillates (petroleum), hydrotreated heavy naphthenic (CAS Proprietary)

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS Proprietary)

Distillates (petroleum), solvent-refined heavy naphthenic (CAS Proprietary)

Residual oils (petroleum), solvent-refined (CAS Proprietary)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008

as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No

1907/2006 as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.

References EU Regulation (EC) 1272/2008 (CLP Regulation) as amended

Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if

available. For details, refer to Sections 9, 11 and 12.

Full text of any H-statements not written out in full under

Sections 2 to 15 H315 Causes skin irritation.

H319 Causes serious eye irritation.

Training information Follow training instructions when handling this material.

AFB-LF GREASE SDS UK

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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