# SAFETY DATA SHEET

## 1. Identification

Product identifier AFE-CA GREASE

Other means of identification

**SDS number** 1030-T21998-1

Product code AFE-CA+70, AFE-CA+400

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 Not classified.

Environmental hazards Hazardous to the aquatic environment,

Category 4

long-term hazard

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement May cause long lasting harmful effects to aquatic life.

**Precautionary statement** 

Prevention Avoid release to the environment.

Response Wash skin with soap and water.

**Storage** Store away from incompatible materials.

**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	%
3,3'-Dioctadecyl -1,1'-methylenebis (4,1-phenylene) diurea	Proprietary	20-30
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Proprietary	0.5-1.5

<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 if irritation

persists after washing.

Eye contact Flush thoroughly with water. If irritation occurs, get medical assistance. Make sure to remove any

contact lenses from the eyes before rinsing.

**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

Treat symptomatically. The effects might be delayed.

Prolonged or repeated skin contact may cause irritation.

Indication of immediate medical attention and special treatment needed

General information

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

# 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

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

equipment/instructions

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 contact with skin. Wear suitable protective clothing, gloves and eye/face protection. 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. For waste disposal, see Section 13 of the SDS.

**Environmental precautions**Do not contain environment.

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

### 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 No exposure limits noted for ingredient(s).

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.

Skin protection

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

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

glove supplier.

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Skin protection

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

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

equipment to remove contaminants.

## 9. Physical and chemical properties

Appearance Paste.
Physical state Solid.

Form Paste. Soft, malleable.

Color Light brown.
Odor Slight.

Odor threshold Not available.

pH Not available.

Melting point/freezing point 496.4 °F (258 °C)

Initial boiling point and boiling Not available.

range

Flash point 428.0 °F (220.0 °C) Setaflash

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Not available.

( /0)

Flammability limit - upper

(%)

Vapor pressureNot available.Vapor densityNot available.

Relative density 0.98

Solubility(ies)

Solubility (water) Insoluble in water.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

## 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.

Possibility of hazardous

reactions

Will not occur.

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

Incompatible materials Strong oxidizing agents.

Hazardous decomposition Carbon oxides. Metal oxides.

products

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## 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** May cause skin irritation. The harmful effects may increase when exposed to used grease.

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

Not available.

# Information on toxicological effects

Acute toxicity Not available.

**Skin corrosion/irritation** May cause skin irritation.

Serious eye damage/eye

irritation

May cause eye irritation on direct contact.

## Respiratory or skin sensitization

Respiratory sensitization None known.

Skin sensitization None known.

Germ cell mutagenicity None known.

Carcinogenicity None known.

## 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 None known.

Chronic effects None known.

## 12. Ecological information

**Ecotoxicity** May cause long lasting harmful effects to aquatic life.

Persistence and degradabilityNone known.Bioaccumulative potentialNone known.Mobility in soilNot available.

**Mobility in general** The product is insoluble in water and will spread on water surfaces.

Other adverse effects Not available.

## 13. Disposal considerations

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

Hazardous waste code Not regulated.

Waste from residues / unused

products

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

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

emptied.

## 14. Transport information

## DOT

Not regulated as dangerous goods.

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#### 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 not known to be 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 No

chemical

## SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

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

Not regulated.

# 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

## 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)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

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Country(s) or region	Inventory name	On inventory (yes/no)*
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 No

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes Toxic Substances Control Act (TSCA) Inventory Yes United States & Puerto Rico

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

Issue date 01-October-2013 12-January-2018 **Revision date** 

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

**HMIS®** ratings Health: 0

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

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).