SAFETY DATA SHEET

MSDS ID: 600000

Date: 2015//05/11

Date revised: 2015/02/02

1. Identification of the substance/mixture and the company

Product Name:

White Grease

Supplier:

Kyokuto Boeki Kaisha Ltd

Address:

New Otemachi BLDG 7F

2-1 Otemachi, 2-Chome, Chiyoda-ku, Tokyo

100-0004 Japan Tel:03-3244-3846

2. Hazards identification

hazard category

Flammable solids Pyrophoric solids

Self-heating substances and mixtures

Corrosive to metals Skin sensitizer

Toxic to reproduction

Acute hazards to the aquatic environment Chronic hazards to the aquatic environment

Category

No Classification No Classification No Classification

No Classification

Category 1 Category 2

Category 2
Category 2

LABEL ELEMENTS

Precautionary pictograms:







Signal word:

Warning

Hazard Statement:

May cause allergic skin reaction

Suspected of damaging fertility or the unborn child

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention Do not handle until all safety precautions have been read and

understood.

Wear protective gloves/protective clothing/eye protection/face

protection.

Do not allow the eyes to become exposed to the product. Do not swallow the product.

Contaminated work clothing should not be allowed out of the

workplace.
Obtain special instructions before use.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.

IF ON SKIN: Wash with plenty of soap and water.

IF exposed or concerned: Get medical advice/attention.

Avoid release to the environment.

Take off contaminated clothing and wash before reuse.

If skin irritation or a rash occurs: Get medical

advice/attention. Collect spillage.

Storage The product must be stored in a cool, well-ventilated location

where it will not be exposed to direct sunlight.

Containers that have been opened must be tightly sealed.

Store locked up.

Disposal Dispose of contents/container in accordance with

local/regional/national/international regulations.

If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.

3. Composition/information on ingredients

Substance/Mixture:

Mixture

Ingredients and Concentration

Ingredient Name	Concentrationwt. %
Base Oil(s)	80-90
Thickener	10-20
Additives	<10
Zinc oxide	1-10
2,6-Di-tert-Butyl-4-Cresol	0. 2-0. 8

4. First-aid measures

Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

Cover the body with blankets to keep warm and quiet. If you feel

unwell, seek medical advice.

Skin Contact:

Immediately flush skin with large amounts of water.

Wash contaminated clothing before reuse.

Eve Contact:

If skin irritation occurs: Get medical advice/attention.
Rinse with clean water carefully for several minutes. Remove

contact lenses if present and if removal is easy, then continue rinsing. Rinse for 15 minutes at a minimum and seek medical

attention.

Ingestion:

Do not induce vomiting. Drink [one glass] [two glasses] of water.

Call a physician [or poison control

center] immediately.

5. Fire-fighting measures

Suitable Extinguishing Media:

Mist of loaded liquid, dry chemicals, carbon dioxide, fire foam,

and dry sand are effective.

Extinguishing Media to Avoid:

Fire Fighting:

Use of straight steam of water can cause a risk of spreading

fire.

water.

Specific hazards arising from the chemical:

precautions for fire fighters:

In some cases of fire, may release irritant gases.

When burnt, may generate carbon monoxide and other toxic gases.

Spray water to the surrounding facilities for cooling.

Keep unauthorized persons off the site of occurrence of fire and

the surroundings.

Even after extinction, cool containers thoroughly with plenty of

Special protective equipment and

Wear fire/flame resistant/retardant clothing.

Fight fire from windward direction while wearing protective equipment. If contact with skin is expected, wear impervious

protective equipment and gloves.

Use air-breathing apparatus and protective clothing whenever

necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment when working.

Remove nearby potential ignition sources immediately.

When mist is generated, use respiratory equipment to prevent

inhalation of mist.

Do not touch or walk through spillage.

Pay attention to the site of spillage, which is slippery.

Prevent spreading of oil spill with earth and sand, sandbags, or other proper materials and use care not to allow the oil spill to

flow to street drains, sewer systems, and rivers.

At sea, install oil spill containment booms to prevent spreading

of spills and absorb with absorption mat or other proper

materials.

Methods and materials for containment and cleaning up:

Environmental precautions:

In case of spillage in small quantity, collect spillage by absorbing with earth, sand, sawdust, waste, or other proper

materials.

In case of spillage in large quantity, enclose with embankment to prevent spreading of spillage and collect spillage in empty

containers to the extent possible.

Prevention of second accident:

In case of spillage, immediately inform the organizations concerned of the spillage to prevent possible accidents and

spreading of spillage.

Remove nearby potential ignition sources immediately and make fire-extinguishing agents available. Remove spillage completely,

and ventilate and clean the site and the surroundings.

7. Handling and storage

Handling

Technical Measures:

Keep away from any possible contact with sparks, open flames, and

high-temperature materials, and do not allow release of vapor

without justification.

Use pumps or other proper equipment for taking out from

containers. Do not siphon with your mouth using a tube. Do not

When mist is generated, use respiratory equipment to prevent

inhalation of mist.

In case of vapor/mist dispersion, install a closed system, local ventilation system, and/or other proper equipment for the sources

of vapor/mist generation.

Avoid rough handling of containers such as falling, dropping,

exposing to shock, and dragging.

Maintain adequate ventilation when handling indoors.

Ventilation requirements: Precautions:

Wash hands and face thoroughly after handling.

Be careful with fire.

Precautions for safe

handling:

Avoid falling, dropping, exposing to shock, or dragging of

containers.

Wear protective gloves when opening containers to eliminate a

risk of hand injury.

Storage

Storage Conditions:

Store in a well ventilated, cool, dry, dark place, protecting

from direct sunlight and keeping away from any potential ignition

sources and high-temperature materials.

Store tightly stopped after use to prevent possible contamination

with dust and moisture.

Preferably store locked up in a proper storage area.

Safety adequate container materials: Use spill-proof containers that are free of damage/corrosion.

8. Exposure controls/personal protection

Appropriate engineering controls:

In case of mist generation, enclose the source of mist

generation, or install a ventilation system.

Install eye cleaning and body cleaning equipment near the

handling site.

Control parameters

Control parameters	· · · · · · · · · · · · · · · · · · ·			
Ingredient Name	Japan Society for Occupational	ACGIH		
	Occupational Exposure Limits	TLV-STEL	TLV-TWA	
Base Oil(s)	ppm,	None established ppm,	None established ppm,	
	mg/m3	None established mg/m3	None established mg/m3	
Thickner	· · · · · · · · · · · · · · · · · · ·	None established	None established ppm,	
	None established	None established mg/m3	None established	

Zinc oxide	None established ppm, None established mg/m3	None established ppm, 10mg/m3(Zinc oxide)	None established ppm, 2mg/m3(Zinc oxide)
2,6-Di-tert-Butyl-4-Cresol	None established ppm, None established mg/m3	None established ppm, None established mg/m3	None established ppm, 2mg/m3(2,6-Di-tert-Butyl-4-

Personal Protective Equipment

Not needed under normal conditions, but wear a gas mask (against Respiratory Protection:

organic gases) whenever required.

Hand protection: In case of prolonged or repeated exposure, wear oil-resistant

hand protection.

Eye/face protection: In case of exposure to splashes, wear ordinary type goggles. Skin Protection: In case of handling over a prolonged period of time or in case of

exposure to oil, wear oil-resistant, long-sleeved work clothing.

Take off contaminated clothing and wash thoroughly before reuse. Hygiene Measures:

Wash hands thoroughly after handling.

9. Physical and chemical properties

Product

Semi solid Form:

Color: White Odor: Odorless

Melting point/freezing Dropping Point≥150(°C)

point:

Initial boiling point No data.

and boiling range:

≥200(°C)Seta Closed Cup Flash point:

Auto-ignition No data.

temperature:

Upper/lower flammability Explosion Limit (1-7%)

or explosive limits:

No data.

Vapour density:

Density(g/cm3): 0.97(25℃)

water : Insoluble. Solubility:

Partition coefficient:

No data.

n-octanol/water:

Decomposition No data.

temperature:

10. Stability and reactivity

Chemical stability: Possibility of hazardous Stable when stored or preserved in a dark place at room temperature. Keep away from any possible contact with strong oxidizing agents.

reactions:

Conditions to avoid:

Contact with incompatible hazard substances

Incompatible materials:

Prolonged heating, open flames, and ignition sources

Use care to keep away from any possible contact with halogens, strong

acids, alkalis, and acidifying substances.

Hazardous decomposition products:

When burnt, may release carbon monoxide and other gases.

11. Toxicological information

Product

Acute toxicity (oral):

Acute toxicity (dermal):

Acute toxicity (inhalation):

Skin corrosion/irritation:

Serious eye damage/irritation:

Respiratory sensitization:

Skin sensitization:

Mutagenicity:

Carcinogenicity:

Reproductive toxicity:

Target organ effect/Single exposure:

Target organ effect/Multi

exposure: Respiratory toxic: For mixtures, hazard category was identified based on

the classification criteria for mixtures.

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Ingredient Base Oil(s)

Acute toxicity (oral):

Acute toxicity (dermal):

Acute toxicity (inhalation):

Skin corrosion/irritation: Serious eye damage/irritation:

Respiratory sensitization:

Skin sensitization:

Respiratory toxic:

Zinc oxide

Acute toxicity (oral):

Acute toxicity (inhalation): Skin corrosion/irritation:

LD50:> 5000 mg/kg[rat] LD50: > 5000 mg/kg[rat]

LC50: 2.18 mg/L[rat], LC50: 2062 ppm[rat]

Mild [rabbit] Mild [rabbit]

Effect on person: not entered

None [guinea pig]

Effect on person: not entered

 $LD50:> 5000{\sim}15000~mg/kg[rat],~LD50:> 5000~mg/kg[rat]$

 $LC50: \ge 5.7 \text{ mg/L[rat]}$

None [rabbit], Effect on person : not entered, Effect on

animals: not entered

Serious eye damage/irritation:

Respiratory sensitization:

Skin sensitization:

Carcinogenicity: Respiratory toxic:

2,6-Di-tert-Butyl-4-Cresol

Acute toxicity (oral):
Acute toxicity (dermal):
Respiratory sensitization:

Skin sensitization: Carcinogenicity: None [rabbit], Effect on animals: not entered

Effect on person: not entered

Negative Maximization method [guinea pig], Effect on person: not entered, Effect on animals: not entered

EPA:D

Effect on person: not entered

LD50: 890~5800 mg/kg[rat], LD50: 890 mg/kg[rat]

LD50: > 2000 mg/kg[rat]
None [guinea pig]

Negative [guinea pig], Positive [human]

IARC:3, ACGIH:A4, ACGIH:A4, IARC:3

12. Ecological information

Product

Ecotoxicity

Fish acute toxicity:

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Algae acute toxicity:

Fish chronic toxicity:

Algae chronic toxicity:

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Ingredient Zinc oxide

Ecotoxicity

Fish acute toxicity:

Daphnia acute toxicity:

Algae acute toxicity: Fish chronic toxicity:

Daphnia chronic toxicity:

2, 6-Di-tert-Butyl-4-Cresol

Ecotoxicity

Daphnia acute toxicity:

Algae acute toxicity:

Bioaccumulative potential:

96hrLC50: 0.066 mgZn/L

48hrLC50: 0.098 mgZn/L, 48hrLC50: 0.032 mgZn/L

96hrEC50: 0.065 mgZn/L

100dayNOEC: 0.026 mgZn/L 21dayNOEC: 0.102 mgZn/L

48hrEC50: 0.84 mg/L

FOLFOSO CO CO CO

72hEC50:> 0.42 mg/L[Desmodesmus subspicatus], 72hEC50:

6 mg/L[Pseudokirchneriella subcapitata]

230 - 2500 BCF method: OECD 305C

13. Disposal considerations

Disposal methods:

Dispose of contents/container in accordance with local/regional/national/international

regulations.

Every customer/user of the product should dispose of industrial waste on its own responsibility, otherwise it must rely on a company authorized by prefectural governor for treating industrial waste or a local public body involved in the disposal of industrial waste for proper disposal.

Before disposal of used container, remove contents completely.

14. Transport information

UN classification:

Not applicable

Specific security precaution and condition of transportation:

Transport containers without causing any significant friction or

shaking.

15. Regulatory information

Korea (KECL):

All components are listed or exempted.

Australia (AICS):

All components are listed or exempted.

Canada (DSL):

In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an

application or notification is required.

China (IECSC):

All components are listed or exempted.

EU (REACH):

In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an

application or notification is required.

New Zealand(NZIoC):

USA (TSCA):

All components are listed or exempted.

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Philippines (PICCS): Taiwan:

All components are listed or exempted.

16. Other information

Disclaimer

have prepared the copyrighted Safety Data Sheet to provide reference information on the hazardous chemical product of interest for our customers/users to ensure secure and safe handling.

We would like every customer/user of the product to refer to the information and understand the necessity of taking appropriate measures for the actual handling conditions on their own responsibilities for optimum practical application of the product of interest.

Consequently, the Safety Data Sheet is not intended to guarantee the

safety of the product referenced to herein.