

1. Product and company identification

Name of the chemical MO GREASE No.2 (TS)

Other means of identification

Reference Number 083066KYAP

Recommended use of the chemical and restrictions on use

Recommended use Lubricating grease

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier

Company name KYODO YUSHI ASIA PTE,LTD.

Address 2 Gul Crescent Singapore 629518 Sg.

Telephone number +65-6861-7737

Importer/Supplier

Company name TAI SHEN HANG ENTERPRISE CO., LTD.

Address No.705 Gaoshr Road. Yangmei, Taoyuan, Taiwan

Telephone number +886-3-2889596

Emergency Phone number +886-3-2889596

2. Hazards identification

Hazard classification

Physical hazards Classification not possible

Health hazards Reproductive toxicity Category 2

Environmental hazards Classification not possible

Label elements

Symbols



Signal word Warning

Hazard statement Suspected of damaging fertility or the unborn child.

Precautionary statement

Prevention Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response IF exposed or concerned: Get medical advice/attention.

Storage Store locked up.

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

Other hazards Combustible.

Supplemental information 90% of the mixture consists of component(s) of unknown acute oral toxicity. 99% of the mixture consists of component(s) of unknown acute dermal toxicity. 100% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixture

Chemical name	CAS Number	Concentration (%)
Zinc oxide	Trade secret	< 0.2
Other components below reportable levels		90 - 100

4. First aid measures

First aid measures for different exposure routes

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep victim warm. Consult a physician if symptoms develop or persist.
Skin contact	Wipe up with absorbent material (e.g. cloth, fleece). Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Consult a physician.

Most important symptoms and effects Direct contact with eyes may cause temporary irritation.

Personal protection for first-aid responders IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Wear safety glasses with side shields (or goggles). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Notes to physician Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media Water fog. Foam. Dry chemical powder. Dry sand. Dry chemicals. Carbon dioxide (CO₂).

Extinguishing media to avoid Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards during fire fighting During fire, gases hazardous to health may be formed.

Special fire fighting procedures Wear suitable protective equipment. Keep upwind and extinguish a fire carefully from a reasonable distance. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Protection of fire-fighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards Combustible.

Specific methods Keep unnecessary personnel away. Immediately evacuate personnel to safe areas. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
For a massive fire, should use foam.

6. Accidental release measures

Personal precautions Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions Contain spills and prevent releases and observe national regulations on emissions. Avoid discharge into drains, water courses or onto the ground.

Spill cleanup methods The product is immiscible with water.
Wipe up with absorbent material (e.g. cloth, fleece). For waste disposal, see section 13 of the SDS.

7. Handling and storage

Handling

Technical measures Avoid formation of dust and aerosols. Do not scatter the material. Use only in well-ventilated areas.

Local and general ventilation Use only in well-ventilated areas.

Precautions Do not handle until all safety precautions have been read and understood.
IF IN EYES: May cause irritation. Avoid contact with eyes. Wear eye/face protection.
IF ON SKIN: May cause irritation. Avoid contact with skin. Wear protective gloves.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Keep container tightly closed. Avoid prolonged or repeated contact with skin. Pregnant or breastfeeding women must not handle this product.

Safe handling advice Avoid prolonged exposure. Should be handled in closed systems, if possible. Observe good industrial hygiene practices. Use personal protection recommended in Section 8 of the SDS.

Storage

Technical measures No specific recommendations.

Suitable storage conditions Store locked up. Keep away from heat and sources of ignition. Store away from incompatible materials (see Section 10 of the SDS).

Safe packaging materials Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition.

8. Exposure controls/personal protection

Exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

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

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. 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

Physical state (GHS)

Solid.

Form

Semi-solid.

Color

Grayish black

Odor

Slight.

Odor threshold

Not available.

Melting point/freezing point

Not available.

pH

Not available.

Boiling point, initial boiling point, and boiling range

Not available.

Flammability (solid, gas)

Not available.

Flash point

401 °F (205 °C) Setaflash

Decomposition temperature

Not available.

Auto-ignition temperature

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

Flammability limit - upper (%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Density

0.93 g/cm³ (25°C)

Solubility(ies)

Solubility (water)

Insoluble in water

Partition coefficient (n-octanol/water)

Not available.

Evaporation rate

Not available.

10. Stability and reactivity

Reactivity

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

Stability

Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.

Symptoms Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components	Species	Test Results
Zinc oxide		
Acute Oral		
LD50	Rat	> 5 g/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not available.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged exposure may be harmful.

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 No data is available on the degradability of any ingredients in the mixture.

Bioaccumulation No data available.

Mobility in soil Not available.

Other hazardous effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations.

Residual waste Dispose of in accordance with local regulations. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. Contract with a disposal operator licensed by the Law on Disposal and Cleaning.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Local disposal regulations Not available.

14. Transport information

IATA

Not regulated as dangerous goods.

UN Number Not applicable

IMDG

Not regulated as dangerous goods.

UN Number Not applicable

15. Regulatory information

Applicable regulations This material safety data sheet was prepared in accordance with the Regulation of Labeling and Hazard Communication of Hazardous Chemicals.

Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

Not listed.

Priority Management Chemical List (Regulations on Handling Priority Managed Chemicals), as amended

Not listed.

Toxic Chemical Substances (TCS) List (EPA Toxic Substances Notice No. 0960095331E, Tables 1-3, Dec. 17, 2007, as amended)

Not listed.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

References

ACGIH
EPA: AQUIRE database
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents
Taiwan. Dangerous Materials (Rules on Hazard Communication of Dangerous Materials and Toxic Materials)
Taiwan. Industrial Precursor Chemicals (Categories and Regulations Governing Inspection and Declaration of Industrial Precursor Chemicals, MOEA Decree No. 87, as amended)
Taiwan. OELs. (Standards on Workplace Atmosphere of Dangerous and Hazardous Materials)
Taiwan. Toxic Chemical Substances (TCS) (List of Toxic Chemical Substances announced by the Environmental Protection Administration)
Taiwan. Toxic Materials (Rules on Hazard Communication of Dangerous Materials and Toxic Materials)

Issued by

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Prepared by

Title -

Disclaimer

This SDS is an addition and complementary document beside the technical data sheet. The information is based upon our knowledge about the product at the date of edition. Since we cannot anticipate or control the different conditions under which this information or our product may be used, we make no guarantee that recommendations will be adequate for all individuals and situations.

Contact Information

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