1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: M-GSMOS500
Product Use: Lubricating Grease
Company: MISUMI Corporation
Identification: Iidabashi First Bldg., 5-1, Koraku 2-chome, Bunkyo-ku,
Tokyo 112-8583, Japan
TEL +81-3-5805-7190 / FAX +81-3-58057191
Administrative Number: M-GS1130-3_ENG

2. Hazard Identification

GHS Classification: Not applicable
Skin Corrosive / Irritation: Nothing
GHS Label Elements
Symbols/Pictograms: Nothing
Signal Word: Nothing
Hazardous Information: Nothing
Instructions
Precaution: Comprehend safety precaution before using this product.
Wash hand thoroughly water after using this product.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture
Common Names of Chemical Substances: grease
Component % By Weight CAS Number
Refined Mineral Oil 90.0 64841-96-4
Oxidation Stabilizer 5.0 1317-33-5
Molybdenum Disulfide 5.0 7631-86-9

Japanese Regulations
Pollutant Release and Transfer Register Law: With 5% Molybdenum Disulfide (Type 1, No-346)
Industrial Safety and Health Law: Not Applicable
Poisonous and Deleterious Substances Control Act: Not Applicable

4. FIRST-AID MEASURES

Eyes: Flush eyes, including under the eyelids, with large amount of water. If irritation persists, seek medical attention.
Skin: Wash thoroughly with mild soap and water. If irritation persists, seek medical attention.
Ingestion: Give copious amount of water or preferably milk and seek medical attention.
Inhalation: Remove to fresh air. Seek medical attention if symptoms persist.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents: Foam, carbon dioxide or dry powder.

Unsuitable extinguishing agents: Water jet

Special fire-fighting procedures: Cut off combustion source to the fire and extinguish it using a fire extinguishing agent.

Also, cool down nearby tanks, building, etc., using a water spray to prevent the fire from forming & spreading.

Advice for firefighters: Extinguish the fire fore windward and wear a respirator as necessary.

6. ACCIDENTAL RELEASE MEASURES

In case of small amount of leakage, collect it in an empty container by absorbing with earth or sand and wash off the remains with a large amount of water.

In case of large amount of leakage, prevent it from flowing with earth or sand, lead it to a safe place, cover the surface with form, etc.

And if possible, collect it in a container. Wash off the remains with large amounts of water.

In this case, make sure that it should not be brained to a river etc. and wear a protective equipment as necessary.

To prevent secondary disaster, notify related organization.

7. HANDLING AND STORAGE

Handling: Shut off all sources of ignition.

Use at ambient temperature and avoid moisture.

Avoid spilling body, and Wear a protective equipment as necessary.

Prevent build-up electrostatic discharge.

Storage: Store in tightly closed original container in a dry and cool place, and avoid direct sunlight.

Do not store Halogens, Strong acid, Alkali, Oxidizing substance in the same place with this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control value: Not established

Adopted value: Japan Society for Occupational Health (2005) 3mg/m3 (as Mineral oil mist)

ACGIH (2004) TLV-TWA: 5mg/m3

Personal Protective equipment

Respiratory Protection: Industrial canister gas masks as necessary

Hand Protection: Oil-resistant glove (PVC etc.)

Eye Protection: Chemical workers goggles.

Wear: Long sleeve clothing.

Special protection information: Use only in well-ventilated area.
Specific hygiene measures: Take off wet-clothes, and reuse after washing.

9. PHYSICAL AND CHEMICAL PROPERTIES
   Appearance and Odor: Black gray / Paste / Faint odor
   pH: N/A
   Freezing point: N/A
   Resolution temperature: N/A
   Flashpoint: below 200℃
   Auto-ignition temperature: N/A
   Explosivity: N/A
   Vapor density (Air=1): N/A
   Specific Gravity: 0.90 (25℃)
   Solubility: Insoluble in water
   Viscosity: #2 (NLGI)
   Volatility: Nothing

10. STABILITY AND REACTIVITY
    Chemical stability: Stable under normal condition
    Conditions to avoid: Avoid Halogens, Strong acid, Alkali, Oxidizing substance
    Possibility of hazardous reactions: Generate Carbon Monoxide depending upon fire

11. TOXICOLOGICAL INFORMATION
    Acute toxicity
    Oral (LD50) Rat: more than 5g/kg (Estimated of referring to Mineral oil which is similar substances)
    Skin (LD50) Rat: more than 5g/kg (Estimated of referring to Mineral oil which is similar substances)
    Inhalation (steam): N/A
    Inhalation (Mist): (LD50) Rat 2.18mg/L (Estimated of referring to Similar substances: Mineral oil)
    Skin corrosive / irritation: N/A
    Serious eyes damage / Eyes irritation: N/A
    Respiratory organs sensitization and skin sensitization: N/A
    Original generative cell variation: N/A
    Carcinogenicity: N/A
    Reproduction toxicity: N/A
    Specification target internal organs / whole toxicity: N/A

12. ECOLOGICAL INFORMATION
    Aquatic environmental toxicity (acute): N/A
    Aquatic environmental toxicity (chronic): N/A
13. DISPOSAL CONSIDERATIONS
   Residues: Disposal should be in accordance with applicable regional, national and local laws and regulations.
   Consult Waste Management Authority for dispose of contents/container.

14. TRANSPORT INFORMATION
   International restriction
   • UN CLASS: Not applicable
   • UN Number: Not applicable
   Domestic restriction: Follow all regulation in your country.
   • DOT Hazard Class: Not Regulated
   • SEA Transport: Not Regulated
   • AIR Transport: Not Regulated (including IATA)

15. REGULATORY INFORMATION
   Japanese Regulations
   • Fire and Disaster Management Act: Not Regulated as Hazardous Materials
   • PRTR: With 5% Molybdenum Disulfide (Type 1, No-346)
   • Law Relating to the Prevention of Marine Pollution and Maritime Disaster:
     Emission regulation of Oil (Banned in principle)
   • Sewerage Act: Emission regulation of Mineral Oil (5mg/L)
   • Water Pollution Prevention Act: Emission regulation of Oil (Adopted value 5mg/L)
   • Waste Management and Public Cleansing Act: Industrial waste regulations

16. OTHER INFORMATION
   This information only concerns the above-mentioned product and does not need to be valid if used with others or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains user owns responsibility to make sure that the information is appropriate and complete for his special use of this product.