M A T E R I A L S A F E T Y D A T A S H E E T

GLIDE TECHNOLOGY SDN BHD (759475-T)
NO 1,BLOK F,JALAN SAUJANA INDAH 10,TAMAN PERINDUSTRIAN SAUJANA INDAH,
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1- IDENTIFICATION

Product Name : **GLIDE MICROGLIDE GEAR OIL GL4 SAE 90**

2- COMPOSITION

Additivated Lubricating Oil: Complex combinations of hydrocarbons obtained (from vacuum distillation) by solvent extraction and dewaxing processes; mainly consisting of saturated hydrocarbons having carbon numbers C_{15}-C_{50} and special additive package incorporated in small quantity.

3- HAZARDS

Human:
Inhalation - Short-term exposures to vapors and oil mists cause irritation of the respiratory tract. Long-term exposures can cause lung fibrosis preceded by broncho-pulmonary symptoms in concentrations over 5 mg/m3 (TLV).
Ingestion - Low oral toxicity: toxicity by ingestion: Grade O; LD 50 > 15g/Kg (oral-rat). Intestinal absorption is very low. Accidental intake of large amounts causes irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.
Contact/Skin - Low skin toxicity: LD 50 > 5g/Kg (rat), level considered to be harmless in short-term exposures. Long-term exposures produce smarting, redness, irritation and dermatitis due to defatting of the keratyn layer. No skin sensitization has been registered in animal tests or human cases.
Eyes - Repeated exposure to vapors or liquid cause irritation.
Environment:
Combustible. Lighter than water; it can obstruct sewers and water intakes.

4- FIRST-AID

Skin	: Flush with plenty of soap and water
Eyes	: Flush with plenty of water for at least 15 minutes.
Ingestion	: Do not induce vomiting. If conscious, have the victim drink water or milk.
Inhalation	: Remove the victim to fresh air; administer oxygen if necessary. Call for medical attention.

5- FIRE PRECAUTIONS

Extinguishing Media Suitable	: Foams, dry chemicals, CO_2, nylons and powders
Non-suitable	: Water, may be ineffective
Protection Equipment	: Heat resistant suit and gloves. Self-contained breathing apparatus.
Special Risks	: NP
Special Measures	: Not required
Combustion Products	: CO_2, H_2O, CO (in defect of air), nitrogen, sulfur and phosphorus oxides.

6- ACCIDENT PRECAUTIONS

Precautions for the Environment:
Hazard of physical fouling to coasts, soils, etc. due to low solubility and high viscosity of the oils. Avoid the material entering water intakes.

Clean-up Method:

Treat as an accidental oil spill or leak; avoid dispersion of the material with mechanical barriers. Remove with physical or chemical treatment.

Personal Precautions	: Avoid prolonged contact with contaminated clothes or with the product
Personal Protection	: Gloves and goggles or face shield

7- STORAGE AND HANDLING

Handling:

General Precautions : Avoid prolonged contact and inhalation of mists and vapors From heated oils

Specific Conditions : Safety goggles and gloves should be used

Storage:

Storage Conditions : Containers properly labeled and sealed, placed in cool and Well ventilated areas

Incompatible Materials : Strong oxidants

Dangerous Practices : NP

8- PERSONAL PROTECTION

Inhalation

Low vapor pressures: The product is slightly volatile at room temperature and does not present special risks. In presence of heated oils, wear protective masks to avoid vapor inhalation.

Skin : Gloves

Eye : Safety goggles

Other : Showers and eye-washers in the working area.

Specific Hygiene Measures : Good work practices to minimize exposure and adoption of good Personal hygiene measures avoid the presence of skin rash and oil acne

Exposure Controls : TLV (typical base oil) = 0.016 PPM at 20°C (saturated vapor concentration); TLV/TWA (ACGIH) = 5mg/m3 (oil mist); TLV/STEL (ACGIH) = 10mg/m3 (oil mist)

9- PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity (at 15° C) : 0.89

Flash Point : 200° C

Explosive Properties : NP

Oxidizing Properties : NP

Water Solubility : Insoluble (100 PPM max. H_2O)

Solubility : Organic solvents

10- STABILITY AND REACTIVITY

Stability : Stable at room temperature

Polymerization Risk : NP

Materials to Avoid : Strong oxidants react with oils and organic materials

Hazardous Decomposition Products : NP

Condition to Avoid : Exposure to open flames

11- TOXICOLOGICAL INFORMATION

Routes of Exposure : Contact with skin, eyes and inhalation. Ingestion is not Frequent.

Acute and chronic Effects : No malignant acute effects are known. Chronic effects due To repeated exposures are irritation, dermatitis and acne.

Carcinogenicity : NP

Reproductive Toxicity : No evidences

Medical Conditions which Increase Hazard to Exposure : Respiratory tract deficiencies and dermatological problems

12- ECOLOGICAL INFORMATION

Pollutant Potential:

Persistence and Degradability- the material is oily and viscous and floats on water. It presents a high physical fouling potential, mainly in sea-spills; by contact, destroys small aquatic organisms and makes living difficult for upper organisms, not allowing the sunlight to reach underlying marine ecosystems, affecting its normal development.

Mobility/Bioaccumulative Potential- it does not present bioaccumulative problems in living organisms or incidence in the tropic food chain, although it may cause long-term adverse effects in the aquatic environment, due to its high physical fouling potential.

Eco toxicological Effect:
Dangerous for aquatic life in high concentrations (spills).

13- DISPOSAL

Disposal Methods (surplus): Recycling and recovery of base oils when possible
Disposal (waste) : Only in specific prepared and controlled areas. Avoid releasingoils to sewers because they can destroy water treatment plantMicroorganisms. Do not attempt to clean containers sinceresidue is difficult to remove; dispose in a safe way.
Handling (waste) : Labeled and sealed containers. Avoid direct contact with wasteoils.

14- TRANSPORTATION

Special Precautions	: Stable at room temperature and during transport. Store in Cool well ventilated areas.
UN Number	: NP
ADR (TPC)/RID (TPF) Classification	: -
IATA-DER Classification	: -
IMDG Classification	: -

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