

# MATERIAL SAFETY DATA SHEET

GLIDE TECHNOLOGY SDN BHD (759475-T)  
NO 1,BLOK F,JALAN SAUJANA INDAH 10, TAMAN PERINDUSTRIAN SAUJANA INDAH,  
TAMAN TTDI JAYA,SEKSYEN U2, 40150,SHAH ALAM,SELANGOR.

## 1- IDENTIFICATION

**Product Name** : GLIDE MICROGLIDE GEAR OIL GL4 SAE 140

## 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<sub>15</sub>-C<sub>50</sub> 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/m<sup>3</sup> (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<sub>2</sub>, 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<sub>2</sub>, H<sub>2</sub>O, 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/m<sup>3</sup> (oil mist);  
TLV/STEL (ACGIH) = 10mg/m<sup>3</sup> (oil mist)

## 9- PHYSICAL AND CHEMICAL PROPERTIES

- Specific Gravity (at 15° C)** : 0.9
- Flash Point** : 220° C
- Explosive Properties** : NP
- Oxidizing Properties** : NP
- Water Solubility** : Insoluble (100 PPM max. H<sub>2</sub>O)
- 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 releasing oils to sewers because they can destroy water treatment plant Microorganisms. Do not attempt to clean containers since residue is difficult to remove; dispose in a safe way.  
**Handling (waste)** : Labeled and sealed containers. Avoid direct contact with waste oils.

## 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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