

# MATERIAL SAFETY DATA SHEET

## GLIDE TECHNOLOGY SDN BHD (759475-T)

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### 1- IDENTIFICATION

Product Name : MOTOGLIDE 4T EXPERT SAE 5W-40 (API SN JASO MA2)

### 2- COMPOSITION

**Additivated Lubricating Oil:** Complex combination of hydrocarbons obtained (from vacuum distillation) by solvent extraction and dewaxing processes; mainly consists of saturated hydrocarbons with the carbon number of C15-C50 and a small quantity of special additive package.

### 3- HAZARDS

**Human** : **Inhalation** - Short-term exposure to vapor and oil mist can cause irritation to the respiratory tract. Long-term exposure can cause lung fibrosis followed by bronchopulmonary symptoms for 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 can cause irritation to the gastrointestinal tract, nausea, vomiting and diarrhea.

**Contact/Skin** - Low skin toxicity: LD 50 > 5g/Kg (rat), level is considered to be harmless for short-term exposures. Long-term exposure can cause smarting, redness, irritation and dermatitis due to defatting of the keratin layer. No skin sensitization has been registered in animal tests or human cases.

**Eyes** - Repeated exposure to vapor or liquid can 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

**Suitable Extinguishing Media** : 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

<b>Precautions for the Environment</b>	: Hazard of physical fouling to coasts, soils, etc. due to low solubility and high viscosity of the oils. Avoid the material entering water intakes.
<b>Clean-up Method:</b>	: Treat as an accidental oil spill or leak; avoid dispersion of the material with mechanical barriers. Remove with physical or chemical treatment.
<b>Personal Precautions</b>	: Avoid prolonged contact with contaminated clothes or with the product.
<b>Personal Protection</b>	: Gloves and goggles or face shield.

## 7- STORAGE AND HANDLING

<b>Handling</b>	: <b>General Precautions</b> - Avoid prolonged contact and inhalation of mists and vapors from heated oils.  : <b>Specific Conditions</b> - Safety goggles and gloves should be used.
<b>Storage</b>	: <b>Storage Conditions</b> - Containers properly labeled and sealed, placed in cool and well-ventilated areas.  : <b>Incompatible Materials</b> - Strong oxidants
<b>Dangerous Practices</b>	: NP

## 8- PERSONAL PROTECTION

<b>Inhalation</b>	: 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.
<b>Skin</b>	: Gloves
<b>Eye</b>	: Safety goggles
<b>Other</b>	: Showers and eye-washers in the working area.
<b>Specific Hygiene Measures</b>	: Good work practices to minimize exposure and adoption of good personal hygiene measures avoid the presence of skin rash and oil acne.
<b>Exposure Controls</b>	: 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

<b>Specific Gravity (at 15° C)</b>	: 0.85
<b>Flash Point</b>	: 210 °C
<b>Explosive Properties</b>	: NP
<b>Oxidizing Properties</b>	: NP
<b>Water Solubility</b>	: Insoluble (100 PPM max. H <sub>2</sub> O)
<b>Solubility</b>	: Organic solvents

## 10- STABILITY AND REACTIVITY

<b>Stability</b>	: Stable at room temperature.
<b>Polymerization Risk</b>	: NP
<b>Materials to Avoid</b>	: Strong oxidants react with oils and organic materials.
<b>Hazardous Decomposition Products</b>	: NP
<b>Condition to Avoid</b>	: Exposure to open flames

## 11- TOXICOLOGICAL INFORMATION

<b>Routes of Exposure</b>	: Contact with skin, eyes and inhalation. Ingestion is not frequent.
<b>Acute and chronic Effects</b>	: 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/Bioaccumulation Potential-** it does not present bioaccumulation 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.

**ADR (TPC)/RID (TPF) Classification** : This material is not classified as dangerous under ADR regulations.

**IATA-DER Classification** : This material is not classified as dangerous under IATA regulations.

**IMDG Classification** : This material is not classified as dangerous under IMDG regulations.

## 15- REGULATORY INFORMATION

**Regulatory Lists Searched** : 01-1=IARC Group 1  
01-2A=IARC Group 2A  
01-2B=IARC Group 2B

No components of this material were found on the regulatory lists above.

**Chemical Safety Assessment** : This product contains substances for which chemical safety assessments are not yet available.

## **16- OTHER INFORMATION**

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorized use of this information or for any modified or altered versions.

This product must be stored, handled and used according to correct industrial hygienic practices and in compliance with laws in force.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

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