

# MATERIAL SAFETY DATA SHEET

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Name of Product: NASKALUB

## 1.SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

- 1-1. Chemical Nature      lubricant  
1-2. Company:              Kaken Sangyou Company Limited  
    Address:                Higasi-Ueno 5-12-5, Taitou-ku Tokyo, Japan  
    Phone:                  03-3841-5771  
    Facsimile:              03-3845-1425  
1-3. Emergency contact: 03-3841-5771(Takemura Yuji)

## 2.COMPOSITION/INFORMATION ON INGREDIENTS

- 2-1. Blended Lubricating Oil  
2-2. Chemicals: Petroleum Hydro-Carbon and additives  
2-3. Ingredients and contents:  
    Base Lubricating Oil 95~85%, Additives 5~15%,  
    Consist Chlorinated Extreme Pressure Additives  
2-4. Chemical Formulas: Not specified due to composition.  
2-5. CAS No.: Confidential  
2-6. UN No.: Not in category  
2-7. Laborer's Safety and Hygienic: Mineral Oil 95 ~85%  
2-8. PRTR: Not classified

## 3.HAZARDS IDENTIFICATION

- Caution.              Flammable  
Hazards                Simple Suffocated Gas  
    Very weak Anesthesia. Under high exposure like 7.5%,  
    slight displeased feeling may occurs but there is no change  
    on appearance. When liquid gas touches on the skin,  
    inflammation and frostbite may be generated.

#### **4. FIRST-AID**

- 4-1. Eye Contact. Light stimulant. Flush with clean water and call a doctor.
- 4-2. Skin Contact. Warm and clean the affected part with massive water.  
When a symptom of frostbite is shown, call a physician.
- 4-3. Inhalation. Move affected parson to fresh air immediately, warm and lie quietly. Call a physician.
- 4-4. Ingestion. Do not induce vomiting. Call a doctor immediately. Clean the mouth with fresh water.

#### **5. FIRE-FIGHTING**

- 5-1. Suitable Extinguishing media Water Spray, Foam, Dry chemical, CO<sub>2</sub>,  
Dry sand
- 5-2. Unsuitable extinguishing media Unknown
- 5-3. Exposure Hazards Thermal decomposition or burning may  
release oxides carbon
- 5-5. Protective Equipment for Firefighters Use self-contained breathing  
apparatus
- 5-6. Others None

#### **6. ACCIDENTAL RELEASE MEASURES**

- 6-1. Personal precautions Avoid contact with eyes and skin.
- 6-2. Environmental Precaution Prevent entry into sewers and waterways.
- 6-3. Methods for Cleaning Disposal should be in compliance with local  
regulations.
- 6-4. Further Information none

#### **7. HANDLING AND STORAGE.**

- 7-1. Handling Take precautionary measures against static discharges.
- 7-2. Storage Keep container tightly closed in a well-ventilated area.  
Keep atmospheric temperature under 40 °C.  
Keep away from sources of ignition.
- 7-3. Further Information none

#### **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

- 8-1. Technical protective measures See item 7-1 and 7-2
- 8-2. Exposure Control Limits See item 7-1 and 7-2

|                             |   |
|-----------------------------|---|
| 8-3. Respiratory Protection | Wear suitable mask, when exposed to dust. |
| 8-4. Hand Protection        | Wear suitable gloves.                     |
| 8-5. Eye Protection         | Wear suitable goggles.                    |
| 8-6. Skin Protection        | Wear overall and closed footwear.         |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                       |                      |
|-----------------------|----------------------|
| 9-1. Appearance       | amber liquid         |
| Odour                 | None-smell           |
| Density (15°C)        | 0.9g/cm <sup>3</sup> |
| Solubility in Water   | insoluble            |
| Pour Point            | under -5°C           |
| Flash Point           | over 200°C           |
| Explosion Limit       | lower 1%, upper 7%   |
| Vapour Pressure(20°C) | not available        |

## 10. STABILITY AND REACTIVITY

|  |                          |
|--|--------------------------|
| 10-1. Thermal Decomposition            | None, when used properly |
| 10-2. Conditions to Avoid              | See item 7-1 and 7-2.    |
| 10-3. Materials to Avoid               | Strong oxidizing agents  |
| 10-4. Hazardous Decomposition products | CO, CO <sub>2</sub>      |
| 10-5. Further Information              | none                     |

## 11. TOXICOLOGICAL INFORMATION

|  |   |
|--|---|
| 11-1. Acute oral Toxicity LD <sub>50</sub> | app. > 5000mg/kg  |
| 11-2. Skin Irritation                      | not available   |
| 11-3. Eye Irritation                       | not available   |
| 11-4. Skin sensitization                   | not available   |
| 11-5. Chronic Toxicity                     | not available   |
| 11-6. Cancer                               | Group 3 (IARC)  |
| 11-7. Further Information                  | A physically harmless lubricating oil film remains upon evaporation of the solvent and is believed to be non-hazardous, when used properly. |

## 12. ECOLOGICAL INFORMATION

|                           |  |
|---------------------------|--|
| 12-1. Biodegradability    | not available                            |
| 12-2. Accumulation        | not available                            |
| 12-3. LC 50 Fish          | not available                            |
| 12-4. Further Information | Prevent entry into sewers and waterways. |

### **13. DISPOSAL CONSIDERATIONS**

Disposal should be in compliance with local regulations.

### **14. TRANSPORT INFORMATION**

- 14-1. To avoid containers from overturn, tumbles down, and shock.
- 14-2. Prevent temperatures rise under 40 °C.
- 14-3. Prohibit to use any ignition substances
- 14-4. Sea Freight non-dangerous
- 14-5. Air Freight non-dangerous
- 14-6. Inflammable

### **15. REGULATORY INFORMATION**

National Regulations (Japan)

High Pressure Gas Control: general high-pressure gas safety control article 2.

Fire-fighting article 9-2.

Labour's Safety and hygienic (flammable gas)

### **16. OTHER INFORMATION**

ANSI 129, 1-1994,

ACGIH (1996-1997),

IARC MONOGRAPHS ON THE CARCINOGENIC RISK OF CHEMICALS TO HUMANS VOLUME 33,

67/548/EEC.

We herewith include the newest information and data, but this is not certified data and assessment. Cautions noted herein are for the general usage and applications. When it is use for out of general purpose, you should encounter the proper safety measures.