HIWIN G06 SDS
(Safety Data)

Features
1. Well wear resistance under high frequency (1.5~3G) or short-stroke condition.
2. Long term grease, suitable for wide temperature range.
3. Can be used in plastic/steel and plastic/plastic components, compatible with elastomers and plastic.

Basic properties

<table>
<thead>
<tr>
<th>HIWIN G06</th>
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<tbody>
<tr>
<td>Consistency enhancer</td>
<td>Special Lithium soap</td>
</tr>
<tr>
<td>Color</td>
<td>Beige</td>
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<tr>
<td>Basic oil</td>
<td>PAO</td>
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<tr>
<td>Service temperature range (°C)</td>
<td>-45 to 130</td>
</tr>
<tr>
<td>NLGI Grade</td>
<td>2</td>
</tr>
<tr>
<td>Viscosity (cst/40°C)</td>
<td>32</td>
</tr>
<tr>
<td>Drop point (°C)</td>
<td>190</td>
</tr>
<tr>
<td>Origin</td>
<td>Germany</td>
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</tbody>
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Pack sizes

- 70g Tube
- 400g Pipe
- 1kg Cans
1. **Identification of the substance/mixture and of the company/undertaking**

- **Product details**
  - **Trade name:** HIWIN G06
  - **Application of the substance / the preparation:** Grease
  - **Manufacturer/Supplier:** HIWIN TECHNOLOGIES CORP.
  - No.7, Jingke Road, Taichung Precision Machinery Park, Taichung 40852, Taiwan
  - **Tel.:** +886-4-23594510
  - **Fax:** +886-4-23594420
  - **Information in case of emergency:** +886-4-23594510

2. **Hazards identification**

- **Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the GHS regulation.
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void

- **Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void

- **Other hazards**
  - Please take care of the precautions for the treatment of fluorine containing products.
  - Dangerous decomposition products may be formed at temperatures exceeding 300 °C.

- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

3. **Composition/information on ingredients**

- **Mixture**
  - **Description:** Metal thickener in synthetic oil with additives.
  - **Dangerous components:** Void

4. **First-aid measures**

- **Description of first aid measures**
  - **After inhalation** Supply fresh air.
  - **After skin contact** Wash with water and soap and rinse thoroughly.
  - **After eye contact** Rinse opened eye for several minutes under running water.
  - If symptoms persist, consult doctor.
  - **After swallowing** Seek medical treatment.

- **Most important symptoms and effects, both acute and delayed**
  - No further relevant information available.
Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5. Fire-fighting measures

- Extinguishing media
  Suitable extinguishing agents
  CO₂ , extinguishing powder or water jet.
  Fight larger fires with water jet or alcohol-resistant foam.
  For safety reasons unsuitable extinguishing agents
  Water with a full water jet.
- Special hazards arising from the substance or mixture
  Carbonmonoxide (CO) and carbondioxide (CO₂)
  Hydrogen fluoride (HF)
- Advice for firefighters
  Protective equipment:
  Do not inhale explosion gases or combustion gases.
  Wear self-contained breathing apparatus.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Particular danger of slipping on leaked/spilled product.
- Environmental precautions:
  Do not allow product to reach sewage system or water bodies.
- Methods and material for containment and cleaning up:
  Collect mechanically.
  Dispose of the material collected according to regulations.
- Reference to other sections
  See Section 7 for information on safe handling
  See Section 8 for information on personal protection equipment.
  See Section 13 for information on disposal.

7. Handling and storage

- Precautions for safe handling
  Do not smoke when handling the product.
- Information about protection against explosions and fires:
  No special measures required.
- Conditions for safe storage, including any incompatibilities
  Storage
  Requirements to be met by storerooms and containers:
  Store only in the original container.
- Information about storage in one common storage facility:
Store away from oxidising agents.

**Further information about storage conditions:** None.

**Recommended storage temperature:** room temperature

- **Specific end use(s)**
  No further relevant information available.

## 8. Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**
  **Components with critical values that require monitoring at the workplace:**
  The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Exposure controls**
  **Personal protective equipment**
  **General protective and hygienic measures**
  The usual precautionary measures should be adhered to when handling the lubricant.
  
  **Breathing equipment:** Not required.
  **Protection of hands:** Protective gloves.
  **Material of gloves** Nitrile rubber, NBR
  **Penetration time of glove material**
  The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  **Not suitable are gloves made of the following materials:**
  Leather gloves
  Strong gloves
  **Eye protection:** Safety glasses
  **Body protection:** Protective work clothing.

## 9. Physical and chemical properties

- **Information on basic physical and chemical properties**
  **General Information**
  **Appearance:**
  **Form:** Paste
  **Colour:** beige
  **Smell:** Odourless
  **Change in condition**
  **Melting point/Melting range:** Not determined
  **Boiling point/Boiling range:** Not determined
  **Dropping point:** >190 °C (IP 396)
  **Flash point:** > 240 °C (ISO 2592) Base oil
  **Ignition temperature:** Not determined
Danger of explosion: Not determined
Density at 20 °C: 0.85 - 0.89 g/cm³ (DIN 51757)
Solubility in / Miscibility with Water: Not mixable or difficult to mix
• Other information No further relevant information available.

10. Stability and reactivity
• Reactivity
• Chemical stability
  Thermal decomposition / conditions to be avoided:
  No decomposition if used and stored according to specifications.
• Possibility of hazardous reactions Reacts with strong acids and oxidizing agents
• Conditions to avoid To avoid thermal decomposition do not overheat.
• Incompatible materials: No further relevant information available.
• Hazardous decomposition products:
  None in case of appropiate storage/handling/transport.
  During thermal decomposition:
  Danger of toxic fluorine based pyrolysis products

11. Toxicological information
• Information on toxicological effects
  Acute toxicity:
  Primary irritant effect:
  on the skin: No irritant effect.
  on the eye: light irritation possible

12. Ecological information
• Toxicity
  Aquatic toxicity: No further relevant information available.
• Persistence and degradability No further relevant information available.
• Bioaccumulative potential No further relevant information available.
• Mobility in soil No further relevant information available.
• Results of PBT and vPvB assessment
  PBT: Not applicable.
  vPvB: Not applicable.
• Other adverse effects No further relevant information available.

13. Disposal considerations
• Waste treatment methods
• Recommendation
  Must not be disposed of together with household garbage.
  Do not allow product to reach sewage system.
European waste catalogue

It is not possible to state the European waste code from the CE catalogue since the classification of these codes is done according to the individual industries. Therefore several codes can be related to one product. The correct classification can be done by the user only.

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

14. Transport information

- UN-Number
  ADR, ADN, IMDG, IATA: Void
- UN proper shipping name
  ADR, ADN, IMDG, IATA: Void
- Transport hazard class(es)
  ADR, ADN, IMDG, IATA
  Class: Void
- Packing group
  ADR, IMDG, IATA: Void
- Environmental hazards:
  Marine pollutant: No
- Special precautions for user: Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
  Not applicable.

15. Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  National regulations
  Water hazard class:
  Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other information

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals