

# HIWIN G06 SDS

(Safety Data Sheet)

## 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 .

## Pack sizes



## Basic properties

HIWIN G06	
Consistency enhancer	Special Lithium soap
Color	Beige
Basic oil	PAO
Service temperature range (°C)	-45 to 130
NLGI Grade	2
Viscosity (cst/40°C)	32
Drop point (°C)	190
Origin	Germany

## 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.

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**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

- ◆ **Chemical characterization**

Components	CAS-No.	EC-No.	Concentration [%]
Polyalphaolefin	68037-01-4	500-183-1	80-85
Special lithum soap	68649-42-3	272-028-3	10-15

- ◆ **Classification of the substance or mixture**

Not a hazardous substance or mixture.

- ◆ **Description** : metal thickener un synthetic oil with additives

## 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**  
CO<sub>2</sub> , 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 (CO<sub>2</sub>)  
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 break through 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**

**Appearance**

**Physical state:** liquid (paste)

**Color:** beige

**Odor:** characteristic

**Melting point :** not determined

**Freezing point** : not determined

**Boiling point** : not determined

**Flammability (solid, gas)**: this material is combustible, but will not ignite readily

**Upper explosion limit / Upper flammability limit** : not determined

**Lower explosion limit / Lower flammability limit** : not determined

**Flash point** : not determined

**Auto-ignition temperature** : not determined

**Decomposition temperature** : not relevant

**pH** : not applicable

**Viscosity, kinematic** : not determined

**Solubility in Water**: insoluble

**Partition coefficient n-octanol/water (Log Kow)** : this information is not available

**Vapor pressure**: not determined

**Relative vapour density**: information on this property is not available

**Density** : 0.85-0.89 g/cm<sup>3</sup>(20 °C)

**Particle characteristics** : not relevant (liquid)

**Other safety parameters**

**Drop point/drop range** : ≥190 °C

- ◆ **Other information** No further relevant information available.

**Information with regard to physical hazard classes** : hazard classes acc. to GHS (physical hazards): not relevant

**Other safety characteristics** : there is no additional information

## 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 appropriate 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

- ◆ **Information on other hazards**

There is no additional information

## 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.

- ◆ **Endocrine disrupting properties:**

Data are not available.

- ◆ **Other adverse effects**

Data are not 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 or ID number**

not subject to transport regulations

- ◆ **UN proper shipping name**

not relevant

- ◆ **Transport hazard class(es)**

none

- ◆ **Packing group**

not assigned

- ◆ **Environmental hazards**  
non-environmentally hazardous acc. to the dangerous goods regulations
- ◆ **Special precautions for user**  
There is no additional information
- ◆ **Maritime transport in bulk according to IMO instruments**  
The cargo is not intended to be carried in bulk.

## 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

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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