

HIWIN G07 SDS

(Safety Data

Features

1. For low temperature condition: -50°C to 0°C.
2. Low starting and running torques particularly at low temperatures

Pack sizes



Basic properties

HIWIN G07	
Consistency enhancer	Lithium-calcium soap
Color	Beige
Basic oil	Mineral
Service temperature range (°C)	-50 to 80
NLGI Grade	1
Viscosity (cst/40°C)	14
Origin	Germany

1. Identification of the substance/mixture and of the company/undertaking

- ◆ **Product details**

Trade name: HIWIN G07

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 (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture.

- ◆ **Label elements**

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling:

EUH210 Safety data sheet available on request.

- ◆ **Other hazards**

3. Composition/information on ingredients

- ◆ **Mixtures**

Chemical nature:

Mineral oil.

lithium calcium soap

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
distillates (petroleum), hydrotreated light paraffinic	64742-55-8 265-158-7 649-468-00-3		Asp. Tox. 1; H304	>= 20 - < 30
calcium bis(dinonylnaphthalen esulphonate)	57855-77-3 260-991-2	Xi; R36 Xi; R38	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 3

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

4. First-aid measures

- ◆ **Description of first aid measures**

If inhaled:

Remove person to fresh air. If signs/symptoms continue, get medical attention.

Keep patient warm and at rest.

If unconscious place in recovery position and seek medical advice.

Keep respiratory tract clear.

If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact:

Take off all contaminated clothing immediately.

Wash off immediately with soap and plenty of water.

Get medical attention immediately if irritation develops and persists.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact:

If eye irritation persists, consult a specialist.

Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.

If swallowed:

If unconscious place in recovery position and seek medical advice.

Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.

Get medical attention if symptoms occur.

Move the victim to fresh air.

- ◆ **Most important symptoms and effects, both acute and delayed**

Symptoms: No information available.

Risks: None known.

- ◆ **Indication of any immediate medical attention and special treatment needed**

Treatment: No information available.

5. Fire-fighting measures

- ◆ **Extinguishing media**

Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: High volume water jet

- ◆ **Special hazards arising from the substance or mixture**

Specific hazards during firefighting: Fire may cause evolution of:

Carbon oxides

Metal oxides

Nitrogen oxides (NO_x)

Sulphur oxides

- ◆ **Advice for firefighters**

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

In the case of respirable dust and/or fumes, use self-contained breathing apparatus.

Exposure to decomposition products may be a hazard to health.

Further information:

Standard procedure for chemical fires.

6. Accidental release measures

- ◆ **Personal precautions, protective equipment and emergency procedures**

Personal precautions:

Evacuate personnel to safe areas.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

Avoid breathing dust.

Refer to protective measures listed in sections 7 and 8.

- ◆ **Environmental precautions**

Environmental precautions:

Try to prevent the material from entering drains or water courses.

Local authorities should be advised if significant spillages cannot be contained.

- ◆ **Methods and materials for containment and cleaning up**

Methods for cleaning up:

Clean up promptly by sweeping or vacuum.

Keep in suitable, closed containers for disposal.

- ◆ **Reference to other sections**

For personal protection see section 8.

7. Handling and storage

- ◆ **Precautions for safe handling**

Advice on safe handling:

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Wash hands and face before breaks and immediately after handling the product.

Do not get in eyes or mouth or on skin.

Do not get on skin or clothing.

Do not ingest.

Do not repack.

These safety instructions also apply to empty packaging which may still contain product residues.

Keep container closed when not in use.

- ◆ **Conditions for safe storage, including any incompatibilities**

- Requirements for storage areas and containers:**

- Store in original container.

- Keep container closed when not in use.

- Keep in a dry, cool and well-ventilated place.

- To maintain product quality, do not store in heat or direct sunlight.

- Containers which are opened must be carefully resealed and kept upright to prevent leakage.

- Store in accordance with the particular national regulations.

- Keep in properly labelled containers.

- ◆ **Specific end use(s)**

- Consult the technical guidelines for the use of this substance/mixture.

8. Exposure controls/personal protection

- ◆ **Control parameters**

- Contains no substances with occupational exposure limit values.

- ◆ **Exposure controls**

- Engineering measures**

- Maintain air concentrations below occupational exposure standards.

- Personal protective equipment**

- Respiratory protection:**

- In the case of dust or aerosol formation use respirator with an approved filter.

- Hand protection:**

- For prolonged or repeated contact use protective gloves.

- The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

- The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

- Eye protection:**

- Tightly fitting safety goggles

- Safety glasses with side-shields conforming to EN166

- Hygiene measures:**

- Wash face, hands and any exposed skin thoroughly after handling.

- Protective measures:**

- The type of protective equipment must be selected according to the concentration and

amount of the dangerous substance at the specific workplace.

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

- ◆ **Environmental exposure controls**

General advice:

Try to prevent the material from entering drains or water courses.

Local authorities should be advised if significant spillages cannot be contained.

9. Physical and chemical properties

- ◆ **I Information on basic physical and chemical properties**

Form: paste

Colour: beige

Odour: characteristic

Odour Threshold: No data available

pH: No data available

Melting point/range: No data available

Boiling point/boiling range: No data available

Flash point: not applicable

Evaporation rate: No data available

Flammability (solid, gas): Combustible Solids

Lower explosion limit: No data available

Upper explosion limit: No data available

Vapour pressure: < 0.001 hPa, 20 °C

Relative vapour density: No data available

Density: 0.87 g/cm³, 20 °C

Water solubility: insoluble

Solubility in other solvents: No data available

Partition coefficient: noctanol/water: No data available

Auto-ignition temperature: No data available

Ignition temperature: No data available

Viscosity, dynamic: No data available

Viscosity, kinematic: No data available

Oxidizing properties: No data available

- ◆ **Other information**

Sublimation point: No data available

Bulk density: No data available

10. Stability and reactivity

- ◆ **Reactivity**

No hazards to be specially mentioned.

- ◆ **Chemical stability**
No decomposition if stored and applied as directed.
- ◆ **Possibility of hazardous reactions**
Hazardous reactions: No dangerous reaction known under conditions of normal use.
- ◆ **Conditions to avoid**
Conditions to avoid: No conditions to be specially mentioned.
- ◆ **Incompatible materials**
Materials to avoid: No materials to be especially mentioned.
- ◆ **Hazardous decomposition products**
Hazardous decomposition products: No decomposition if stored and applied as directed.

11. Toxicological information

- ◆ **Information on toxicological effects**

Product

Acute oral toxicity: This information is not available.

Skin corrosion/irritation: This information is not available.

Serious eye damage/eye irritation: This information is not available.

Respiratory or skin sensitisation: This information is not available.

Germ cell mutagenicity

Genotoxicity in vitro: No data available

Genotoxicity in vivo: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Teratogenicity: No data available

Repeated dose toxicity: This information is not available.

Aspiration toxicity: This information is not available.

Further information: Information given is based on data on the components and the toxicology of similar products.

Components:

distillates (petroleum), hydrotreated light paraffinic:

Acute oral toxicity: LD50: > 5,000 mg/kg, rat

Acute inhalation toxicity: LC50: > 5 mg/l, 4 h, rat, dust/mist

Acute dermal toxicity: LD50: > 5,000 mg/kg, rabbit \

Aspiration toxicity: May be fatal if swallowed and enters airways.

calcium bis(dinonylnaphthalenesulphonate):

Acute oral toxicityLD50: > 5,000 mg/kg, rat

Acute dermal toxicity: LD50: > 20,000 mg/kg, rabbit

Skin corrosion/irritation: rabbit, Result:

Irritating to skin., Classification: Irritating to skin.

Serious eye damage/eye irritation: rabbit, Result:

Irritating to eyes., Classification: Irritating to eyes.

12. Ecological information

- ◆ **Toxicity**

- ◆ **Product**

- ◆ **Toxicity to fish:** No data available

- ◆ **Toxicity to daphnia and other aquatic invertebrates:** No data available

- ◆ **Toxicity to algae:** No data available

- ◆ **Toxicity to bacteria:** No data available

- ◆ **Components:**

- ◆ **distillates (petroleum), hydrotreated light paraffinic:**

- ◆ **Toxicity to fish:** LC50: > 100 mg/l, 96 h, *Oncorhynchus mykiss* (rainbow trout)

- ◆ **Toxicity to daphnia and other aquatic invertebrates:** EC50: > 10,000 mg/l, 48 h, *Daphnia magna* (Water flea)

- ◆ **Persistence and degradability**

- ◆ **Product**

- ◆ **Biodegradability:** No data available

- ◆ **Physico-chemical removability:** No data available

- ◆ **Bioaccumulative potential**

- ◆ **Product**

- ◆ **Bioaccumulative potential:**

- ◆ This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

- ◆ This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

- ◆ **Mobility in soil**

- ◆ **Product**

- ◆ **Mobility:** No data available

- ◆ **Distribution among environmental compartments:** No data available

- ◆ **Results of PBT and vPvB assessment**

- ◆ **Product**

- ◆ **Assessment:**

- ◆ This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

- ◆ **Other adverse effects**

- ◆ **Product**

- ◆ **Additional ecological information:** No information on ecology is available.

13. Disposal considerations

- ◆ **Waste treatment methods**

- ◆ **Product:**

The product should not be allowed to enter drains, water courses or the soil.

Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging:

Empty containers can be landfilled, when in accordance with the local regulations.

14. Transport information

- ◆ **UN number**
ADR:
Not dangerous goods
IMDG:
Not dangerous goods
IATA:
Not dangerous goods
- ◆ **Proper shipping name**
ADR:
Not dangerous goods
IMDG:
Not dangerous goods
IATA:
Not dangerous goods
- ◆ **Transport hazard class**
ADR:
Not dangerous goods
IMDG:
Not dangerous goods
IATA :
Not dangerous goods
- ◆ **Packing group**
ADR:
Not dangerous goods
IMDG:
Not dangerous goods
IATA:
Not dangerous goods
- ◆ **Environmental hazards**
ADR:
Not dangerous goods
IMDG:
Not dangerous goods
IATA:

- Not dangerous goods
- ◆ **Special precautions for user:**
No data available
- ◆ **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :**
Not available

15. Regulatory information

- ◆ **Safety, health and environmental regulations/legislation specific for the substance or mixture**
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59):
This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
Major Accident Hazard Legislation:
96/82/EC Update:
Petroleum products:
(a) gasolines and naphthas,
(b) kerosenes (including jet fuels),
(c) gas oils (including diesel fuels, home heating oils and gas oil blending streams) 13
Quantity 1: 2,500 t
Quantity 2: 25,000 t
- ◆ **Chemical Safety Assessment**
This information is not available.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R36 Irritating to eyes.

R38 Irritating to skin.

Full text of H-Statements referred to under sections 2 and 3

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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