

HIWIN G07 SDS

(Safety Data Sheet)

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.

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 (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**

Mineral oil : 70~90 %

lithium calcium soap : 5~20 %

Additive : 3~5 %

Hazardous components

Chemical name	CAS-No.	EC-NO.	Concentration [%]
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	30-50
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	30-50
Hydrocarbon waxes	68602-85-7	271-626-1	1-10

(petroleum), oxidized, Me esters			
Naphthalenesulfonic acid, di-C9-rich C8-10-branched alkyl derivs., calcium salts	1474044-79-5	939-717-7	1-10
Lithium 12-hydroxystearate	7620-77-1	231-536-5	1-10
Calcium bis(dinonylnaphthalene sulphonate)	57855-77-3	260-991-2	1-10
Substance with a workplace exposure limit:			
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0	1-10

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

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flammability (solid, gas): Combustible Solids

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : Not applicable

Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

Water solubility: insoluble

Solubility in other solvents: No data available

Partition coefficient n-octanol/water (Log Kow) : No data available

Vapour pressure : < 0.001 hPa (20 °C)

Density : 0.87 g/cm³(20 °C)

Relative density : 0.87 (20 °C) Reference substance: Water (The value is calculated)

Relative vapour density: No data available

Particle size : Not available

Particle size distribution : Not available

Particle shape : Not available

Particle aspect ratio : Not available

Particle aggregation state : Not available

Particle agglomeration state : Not available

Particle specific surface area : Not available

Particle dustiness : Not available

◆ **Other information**

Information with regard to physical hazard classes

No additional information available.

Other safety characteristics

No additional information 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.

◆ **Information on other hazards**

Endocrine disrupting properties

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

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

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.

◆ **Endocrine disrupting properties:**

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

◆ **Other adverse effects:**

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 or ID number**
 - ADN Not regulated as a dangerous good
 - ADR Not regulated as a dangerous good
 - RID Not regulated as a dangerous good
 - IMDG Not regulated as a dangerous good
 - IATA Not regulated as a dangerous good
- ◆ **UN proper shipping name**
 - ADN Not regulated as a dangerous good
 - ADR Not regulated as a dangerous good
 - RID Not regulated as a dangerous good
 - IMDG Not regulated as a dangerous good
 - IATA Not regulated as a dangerous good
- ◆ **Transport hazard class(es)**
 - ADN Not regulated as a dangerous good
 - ADR Not regulated as a dangerous good
 - RID Not regulated as a dangerous good
 - IMDG Not regulated as a dangerous good
 - IATA Not regulated as a dangerous good
- ◆ **Packing group**
 - ADN Not regulated as a dangerous good
 - ADR Not regulated as a dangerous good
 - RID Not regulated as a dangerous good
 - IMDG Not regulated as a dangerous good
 - IATA(Cargo) Not regulated as a dangerous good
 - IATA(Passenger) Not regulated as a dangerous good
- ◆ **Environmental hazards**
 - ADN Not regulated as a dangerous good
 - ADR Not regulated as a dangerous good
 - RID Not regulated as a dangerous good
 - IMDG Not regulated as a dangerous good
- ◆ **Special precautions for user**
 - Not applicable
- ◆ **Maritime transport in bulk according to IMO instruments**
 - Remarks : Not applicable for product as supplied

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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HIWIN TECHNOLOGIES CORP.

No. 7, Jingke Road,
Taichung Precision Machinery Park,
Taichung 40852, Taiwan
Tel: +886-4-23594510
Fax: +886-4-23594420
www.hiwin.tw
business@hiwin.tw

Subsidiaries & R&D Centers

HIWIN GmbH
OFFENBURG, GERMANY
www.hiwin.de
www.hiwin.eu
info@hiwin.de

HIWIN JAPAN
KOBE · TOKYO · NAGOYA · NAGANO · TOHOKU ·
HOKURIKU · HIROSHIMA · KUMAMOTO, JAPAN
www.hiwin.co.jp
info@hiwin.co.jp

HIWIN USA
CHICAGO · SILICON VALLEY, U.S.A.
www.hiwin.com
info@hiwin.com

HIWIN s.r.o.
BRNO, CZECH REPUBLIC
www.hiwin.cz
info@hiwin.cz

HIWIN Schweiz GmbH
JONA, SWITZERLAND
www.hiwin.ch
info@hiwin.ch

HIWIN FRANCE
ECHAUFFOUR, FRANCE
www.hiwin.fr
info@hiwin.fr

HIWIN Srl
MILAN, ITALY
www.hiwin.it
info@hiwin.it

HIWIN SINGAPORE
SINGAPORE
www.hiwin.sg
info@hiwin.sg

HIWIN KOREA
SOWON, KOREA
www.hiwin.kr
info@hiwin.kr

HIWIN CHINA
SUZHOU, CHINA
www.hiwin.cn
info@hiwin.cn

Mega-Fabs Motion System, Ltd.
HAIFA, ISRAEL
www.mega-fabs.com
info@mega-fabs.com

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