

# HIM GO5 SDS (Safety Data Sheet)

#### **Features**

- 1. Well wear resistance under general conditions
- 2. Low friction resistance under general conditions
- 3. Long-life
- 4. Stable to oxidation
- 5. Water-resistant
- 6. Protects against corrosion

## Pack sizes



#### **Basic properties**

HIWIN G05				
Consistency	Lithium soap			
Color	Brown			
Basic oil	Mineral			
Service temperature range ( $^{\circ}$ )		-15 to 120		
NLGI Grade		2		
Viscosity (cst/40℃)		200		
Drop point (°C)		190		
4-ball test	Wear scar diameter (µm) (ASTM D2266)	291		
	Welding load (N) (DIN 51350-4	2600/2800		
Origin		Germany		

# **HIWIN**<sub>®</sub>

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

Product details

Trade name: HIWIN G05

**Application of the substance / the preparation:** Grease

Manufacturer/Supplier:HIWIN TECHNOLOGIES CORP.

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# 2. Hazards identification

 Classification of the substance or mixture Classification according to 67/548/EEC, 1999/45/EC Additional hints

The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances.

• Label elements

Labelling according to 1999/45/EC

## **Remarks for labelling**

The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances. Although this product does not require a hazard warning label, we recommend that the safety advice should be observed.

# Other hazards Information pertaining to special dangers for human and environment none at appropriate handling and storage

# 3. Composition/information on ingredients



#### • Chemical characterization

Components	CAS-No.	EC-No.	Concentration[%]	GHS
Synthetic hydrocarbon SHC, polymerized	68037-01-4	500-183-1	20-50%	_
Ester oil	28472-97-1	249-044-4	20-50%	_
Lithium soap	7620-77-1	231-536-5	20-50%	-
Mineral oil	72623-87-1	276-738-4	<=5.0%	-
additive	597-82-0	209-909-9	<=2,0%	H413
additive	68411-46-1	270-128-1	<=0,5%	H412
additive	41484-35-9	255-392-8	<=0,5%	H413
additive	80939-62-4	279-632-6	<=0,5%	H315,H319,H411

#### Mixtures

#### Description

Thickening system and additives in highly refined mineral oil.

#### **Additional advice**

No hazardous material resp. below level of consideration according to RL 67/548 EWG.

## 4. First-aid measures

## Description of first aid measures

#### **General information**

Remove contaminated soaked clothing immediately, don't leave to dry.

#### In case of inhalation

Call doctor in case of indisposition. Ensure of fresh air.

(may be relevant for vapours of superheated product)

#### In case of skin contact

In case of contact with skin wash off with soap and water. Don't use organic solvents Consult a doctor if skin irritation persists.

#### In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.



In case of ingestion
Call doctor in case of indisposition
Most important symptoms and effects, both acute and delayed
Physician's information / possible symptoms
No symptoms known so far.
Physician's information / possible dangers
Aspiration hazard when vomiting after swallow up.
Indication of any immediate medical attention and special treatment needed Treatment
(Advice to doctor)
Treat symptoms.

# 5. Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing media
  - Alcohol-resistant foam
  - Dry fire-extinguishing substance
  - Carbon dioxide
  - Water spray jet

Unsuitable extinguishing media

- Full water jet
- Special hazards arising from the substance or mixture Fire gas of organic material has to be classed invariably as respiratory poison.
- Advice for firefighters

## Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

## Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

# 6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures For non-emergency personnel
  - Avoid contact with skin and eyes

High risk of slipping due to leakage/spillage of product.

- Environmental precautions
   Do not discharge into the drains/surface waters/groundwater.
   Do not discharge into the subsoil/soil.
- Methods and material for containment and cleaning up Take up mechanically and send for disposal.

## **Additional Information**

Informations for disposal see chapter 13.



• **Reference to other sections** No information available.

# 7. Handling and storage

## • Precautions for safe handling

#### Advice on safe handling

Take the usual precautions when handling with chemicals.

## General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

## **Hygiene measures**

Cloths contaminated with product should not be kept in trouser pockets.

Follow general rules of industrial hygiene for safe handling of chemical products

At work do not eat, drink and smoke.

Use barrier skin cream.

## Advice on protection against fire and explosion

The product is combustible.

Pay attention to general rules of internal fire prevention.

## Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Prevent penetration into the ground.

## Advice on storage compatibility

Do not store together with food.

## Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

Recommended storage temperature: room temperature.

#### Storage group: 11

Fire class: B

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Specific end use(s)
 No information available.

# 8. Exposure controls/personal protection

Control parameters

## Additional advice

This product as such does not contain any relevant ingredients with to be observed limited values.

As basis for this information served the valid references.

## Exposure controls

## **Respiratory** protection

Not required at determined application.

Hand protection



As the product is a preparation of several substances, the actual resistance of the materials used for gloves cannot be scientifically calculated; it is therefore mandatory to check this before using the product.

The break through time depends on the mechanical stress imposed and must therefore be checked individually.

nitrile gloves

**Eye protection** 

safety goggles

**Other protection measures** 

Usual working clothes for chemical industries

#### **Appropriate engineering controls**

Care for good room ventilation, exhaust system at workshop place if necessary

#### 9. Physical and chemical properties

Information on basic physical and chemical properties Appearance Physical state: solid Form: Paste Color: Yellow **Odor:** characteristic **Odor Threshold:** Not applicable for mixtures **Melting point :** > 180°C Freezing point : No data available **Boiling point :** Value not relevant for classification Flammability (solid, gas): Value not relevant for classification **Upper explosion limit / Upper flammability limit :** Not applicable for mixtures Lower explosion limit / Lower flammability limit : Not applicable for mixtures Flash point : > 230°C Auto-ignition temperature : Value not relevant for classification **Decomposition temperature :** Value not relevant for classification **pH**: Not applicable Viscosity, dynamic : No data available Viscosity, kinematic : Not applicable Solubility(ies) Solubility in Water: Insoluble in water Solubility (other): No data available **Partition coefficient n-octanol/water (Log Kow) :** No data available Vapor pressure: Not applicable for mixtures Vapor density (air=1): Not applicable for mixtures **Density** :  $0.90 \text{ g/cm}^{3}(25 \text{ °C})$ **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
NLGI: 2
Explosive properties: Value not relevant for classification
Oxidizing properties: Value not relevant for classification

• Other information: No data available

# 10. Stability and reactivity

- **Reactivity** No information available.
- Chemical stability No information available.
- **Possibility of hazardous reactions** No information available.
- **Conditions to avoid** No information available.
- Incompatible materials
   Materials to avoid
   No hazardous reactions known.
  - No nazardous reactions known.
- Hazardous decomposition products

No hazardous decomposition products known.

Thermal decomposition

Remark: No decomposition if used as directed.

# 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral				not determined
Irritability skin	no irritating effects known			
Irritability eye	no irritating effects known			
Skin sensitization	no irritating effects known			

#### **Experiences** made from practice

no harmful effects at appropriate handling and determined usage

## Additional information

No toxical dates available.



The product was classified on the basis of the calculation procedure of the directive 67/548/EEC (conventional method).

Information on other hazards
 No data available

# 2. Ecological information

Toxicity

## **Ecotoxicological effects**

	Value	Species	Method	Validation
Fish				not determined

- Persistence and degradability. Biological degradability Biological degradability
- **Bioaccumulative potential** No information available.
- **Mobility in soil** No information available.
- **Results of PBT and vPvB assessment** No information available.
- Other adverse effects
  - Behaviour in sewage plant

Product swims on (waste-) water surface

**General regulation** 

Do not allow uncontrolled leakage of product into the environment.

- Endocrine disrupting properties: No data available.
- Other adverse effects
   No data available.
   Water Hazard Class (WGK): WGK 1: slightly water-endangering

# 13. Disposal considerations

## • Waste treatment methods

## **Recommendations for the product**

Waste disposal in accordance with the relevant regulations.

## **Recommendations for packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken fot reuse.

## **General information**

Ultimately responsible for correct classification is the waste producer, as the EWC names different codes for different origins of same waste



# 14. Transport information

- UN number or ID number None.
- UN proper shipping name None.
- Transport hazard class(es) Non-dangerous goods.
- Packing group None.
- Environmental hazards None.
- Special precautions for user None.
- Maritime transport in bulk according to IMO instruments Not applicable.

# 15. Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - VOC standard
  - **VOC content:** 0 %
  - National regulations

Water hazard class: 1 Mixture-WGK according to VwVwS (GER)

 Chemical Safety Assessment No information available.

# 16. Other information

#### Training advice

Use information in this MSDS

## **Recommended uses and restrictions**

usage only according to instructions for use and observance of warning notes National and local regulations concerning chemicals shall be observed.

## **Further information**

The information given in this MSDS is based on the present state of knowledge and is intended to describe our products from the point of view of safety requirements only. Substantial changes to the former version are marked by "!" on the left margin of the paper. All the raw materials in this product are listed in TSCA.

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