

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## HIWIN G05

Revision date: 07.07.2023

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

HIWIN G05

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Use of the substance/mixture

Lubricants, greases, release products

##### Uses advised against

Any non-intended use.

#### 1.3. Details of the supplier of the safety data sheet

Company name: HIWIN GmbH  
 Street: Brücklesbünd 1  
 Place: 77654 Offenburg  
 Telephone: +49 781 93278-0  
 E-mail: info@hiwin.de

#### 1.4. Emergency telephone number:

+49 781 93278-0 - Only available during office hours.

#### Further Information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

#### 2.2. Label elements

##### Regulation (EC) No 1272/2008

##### Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

##### Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none

#### 2.3. Other hazards

The mixture contains the following substances fulfilling the PBT criteria according to REACH, annex XIII:  
 O,O,O-triphenyl phosphorothioate; Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene.  
 O,O,O-triphenyl phosphorothioate: The substance is suspected to fulfil the PBT criteria. The substance is listed in the PBT assessment list, but the assessment is still ongoing (ECHA).  
 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: The substance is suspected to fulfil the PBT criteria. The substance is listed in the PBT assessment list, but the assessment is still ongoing (ECHA).  
 This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria. This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			

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597-82-0	O,O,O-triphenyl phosphorothioate		<= 2 %
	209-909-9		
	Aquatic Chronic 4; H413		
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene		<= 0,5 %
	270-128-1		
	Aquatic Chronic 3; H412		

Full text of H and EUH statements: see section 16.

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
597-82-0	209-909-9	O,O,O-triphenyl phosphorothioate	<= 2 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 10000 mg/kg	
68411-46-1	270-128-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	<= 0,5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	

### Further Information

Product does not contain listed SVHC substances > 0.1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

See sections 2 and 11

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

#### Unsuitable extinguishing media

High power water jet.

### 5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Sulphur oxides. Phosphorus oxides. metal oxides.

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### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **General advice**

Safe handling: see section 7

#### **For non-emergency personnel**

Wear personal protection equipment (refer to section 8).

#### **For emergency responders**

No special measures are necessary.

### **6.2. Environmental precautions**

Discharge into the environment must be avoided.

### **6.3. Methods and material for containment and cleaning up**

#### **For containment**

Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

#### **For cleaning up**

Clean contaminated objects and areas thoroughly observing environmental regulations.

### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Wear suitable protective clothing. (See section 8.)

#### **Advice on protection against fire and explosion**

Usual measures for fire prevention.

#### **Advice on general occupational hygiene**

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work.

#### **Further information on handling**

General protection and hygiene measures: See section 8.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

#### **Hints on joint storage**

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

#### **Further information on storage conditions**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity.

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### 7.3. Specific end use(s)

See section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
-	Mineral Oil pure, highly & severely refined (Inhalable)	-	5		TWA (8 h)	

### 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). EN 166

##### Hand protection

In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time  $\geq$  8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time  $\geq$  8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

##### Skin protection

Suitable protective clothing: Lab apron.

##### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

##### Thermal hazards

Material handled at elevated temperature may cause thermal burns by contact with molten product.

##### Environmental exposure controls

No special precautionary measures are necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:

pasty

Colour:

yellow

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Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		> 180 °C
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		> 230 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		not determined
Solubility in other solvents		not determined
Dissolution rate:		not relevant
Partition coefficient n-octanol/water:	SECTION 12: Ecological information	
Dispersion stability:		not relevant
Vapour pressure:		not determined
Density (at 25 °C):		0,9 g/cm <sup>3</sup>
Bulk density:		not relevant
Relative vapour density:		not determined
Particle characteristics:		not relevant

#### **9.2. Other information**

##### **Information with regard to physical hazard classes**

Explosive properties		
none		
Sustaining combustion:		Not sustaining combustion
Self-ignition temperature		
Gas:		not determined
Oxidizing properties		
none		

##### **Other safety characteristics**

Evaporation rate:		not determined
Solvent separation test:		not determined
Solvent content:		not determined
Solid content:		not determined
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
Viscosity / dynamic:		not determined
Flow time:		not determined

##### **Further Information**

No information available.

### **SECTION 10: Stability and reactivity**

#### **10.1. Reactivity**

No information available.

#### **10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

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#### **10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.  
Refer to chapter 10.5.

#### **10.4. Conditions to avoid**

Protect against: UV-radiation/sunlight. heat.

#### **10.5. Incompatible materials**

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

#### **10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

### **SECTION 11: Toxicological information**

#### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

##### **Toxicokinetics, metabolism and distribution**

No data available.

##### **Acute toxicity**

Based on available data, the classification criteria are not met.

##### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
597-82-0	O,O,O-triphenyl phosphorothioate				
	oral	LD50 > 10000 mg/kg	Rat	ECHA Dossier	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	ECHA Dossier	OECD Guideline 402
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene				
	oral	LD50 > 5000 mg/kg	Rat	ECHA Dossier	OECD 401
	dermal	LD50 > 2000 mg/kg	Rat	ECHA Dossier	OECD 402

##### **Irritation and corrosivity**

Based on available data, the classification criteria are not met.

##### **Sensitising effects**

Based on available data, the classification criteria are not met.

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

##### **STOT-single exposure**

Based on available data, the classification criteria are not met.

##### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

##### **Aspiration hazard**

Based on available data, the classification criteria are not met.

##### **Specific effects in experiment on an animal**

No data available.

#### **11.2. Information on other hazards**

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### Endocrine disrupting properties

This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Based on available data, the classification criteria are not met.

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
597-82-0	O,O,O-triphenyl phosphorothioate					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Danio rerio	ECHA Dossier	READ ACROSS
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	READ ACROSS
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna (OECD 202)	ECHA Dossier	
	Crustacea toxicity	NOEC > 5,5 mg/l	22 d	Daphnia magna	ECHA Dossier	READ ACROSS
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Danio rerio	ECHA Dossier	OECD 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	OECD 201
	Acute crustacea toxicity	EC50 51 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD 202
	Acute bacteria toxicity	(EC50 >100 mg/l)	3 h	activated sludge, domestic	ECHA Dossier	OECD 209

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
597-82-0	O,O,O-triphenyl phosphorothioate			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	17,8-19,3%	29	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	1 %	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
597-82-0	O,O,O-triphenyl phosphorothioate	5
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	6,66

#### BCF

CAS No	Chemical name	BCF	Species	Source
597-82-0	O,O,O-triphenyl phosphorothioate	5200	Fish	SAR and QSAR in Envi

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68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	4176	Cyprinus carpio - 0.01 mg/L	United States Enviro
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#### **12.4. Mobility in soil**

No data available.

#### **12.5. Results of PBT and vPvB assessment**

The mixture contains the following substances fulfilling the PBT criteria according to REACH, annex XIII: O,O,O-triphenyl phosphorothioate; Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene. O,O,O-triphenyl phosphorothioate: The substance is suspected to fulfil the PBT criteria. The substance is listed in the PBT assessment list, but the assessment is still ongoing (ECHA). Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: The substance is suspected to fulfil the PBT criteria. The substance is listed in the PBT assessment list, but the assessment is still ongoing (ECHA).

#### **12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

#### **12.7. Other adverse effects**

No data available.

#### **Further information**

Do not allow to enter into surface water or drains.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

##### **List of Wastes Code - residues/unused products**

070799 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; wastes not otherwise specified

##### **List of Wastes Code - used product**

070799 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; wastes not otherwise specified

##### **List of Wastes Code - contaminated packaging**

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

##### **Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

##### **14.1. UN number or ID number:**

No dangerous good in sense of these transport regulations.

##### **14.2. UN proper shipping name:**

No dangerous good in sense of these transport regulations.

##### **14.3. Transport hazard class(es):**

No dangerous good in sense of these transport regulations.

##### **14.4. Packing group:**

No dangerous good in sense of these transport regulations.

#### **Inland waterways transport (ADN)**

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<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of these transport regulations.

#### Marine transport (IMDG)

<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

#### Air transport (ICAO-TI/IATA-DGR)

<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

refer to chapter 6 - 8

#### **14.7. Maritime transport in bulk according to IMO instruments**

not relevant

### SECTION 15: Regulatory information

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

##### Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No (mixture): not relevant

##### National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

#### **15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

Rev. 1,0; Initial release: 07.07.2023

#### 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)

AGW: Arbeitsplatzgrenzwert

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

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DNEL: Derived No Effect Level  
d: day(s)  
EINECS: European INventory of Existing Commercial chemical Substances  
ELINCS: European List of Notified Chemical Substances  
ECHA: European Chemicals Agency  
EWC: European Waste Catalogue  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
h: hour  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect concentration  
NLP: No-Longer Polymers  
N/A: not applicable  
OECD: Organisation for Economic Co-operation and Development  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
REACH: Registration, Evaluation, Authorisation of Chemicals  
SVHC: substance of very high concern  
TRGS: Technische Regeln für Gefahrstoffe  
UN: United Nations  
VOC: Volatile Organic Compounds

**Relevant H and EUH statements (number and full text)**

H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH210	Safety data sheet available on request.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*