

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

Issue date: 27/11/2024 Revision date: 27/11/2024 Supersedes: 14/12/2022 Version: 3.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form Mixture

Product name Kluebersynth GH 6-80 (Hilti)

Product code BU Diamond

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture Lubricant

Recommended use For professional use only

1.4. Supplier's details

Supplier Department issuing data specification sheet

Hilti (Hong Kong) Ltd. Hilti AG

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hksales@hilti.com

1.5. Emergency phone number

Emergency number Emergency CONTACT (24-Hour-Number):

GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

+852 27734 700

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Hazardous to the aquatic environment – Acute Hazard, Category 3 H402 Expert judgement
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412 Expert judgement

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Signal word (GHS UN)

Hazard statements (GHS UN) H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS UN) P273 - Avoid release to the environment.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
diphenyl tolyl phosphate	CAS-No.: 26444-49-5	< 2.5	Flammable liquids Not classified Acute toxicity (oral) Not classified Acute toxicity (dermal), Category 5, H313 Hazardous to the aquatic environment – Acute Hazard, Category 1, H400 Hazardous to the aquatic environment – Chronic Hazard, Category 1, H410
triphenyl phosphate	CAS-No.: 115-86-6	< 2.5	Acute toxicity (oral), Category 5, H303 Acute toxicity (dermal) Not classified Hazardous to the aquatic environment – Acute Hazard, Category 1, H400 Hazardous to the aquatic environment – Chronic Hazard, Category 2, H411
Bis(methylphenyl) phenyl phosphate	CAS-No.: 26446-73-1	< 2.5	Hazardous to the aquatic environment – Acute Hazard, Category 1, H400

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse.

First-aid measures after eye contact Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects Not expected to present a significant hazard under anticipated conditions of normal use.

Potential adverse human health effects and Based on available data, the classification criteria are not met.

symptoms

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

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5.2. Specific hazards arising from the chemical

Fire hazard Combustible liquid.

Reactivity in case of fire Decomposition products may be a hazard to health. Hazardous decomposition products in case of fire Carbon dioxide. Carbon monoxide. Nitrogen oxides.

5.3. Special protective actions for fire-fighters

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevention Measures for Secondary Accidents No additional information available.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not

breathe vapours, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in

process area to prevent formation of vapour.

Hygiene measures Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep cool. Protect from sunlight. Keep container closed when not in use. Keep only in

original container.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Monitoring methods	
Monitoring methods	A specific exposure sampling method is not available.

8.2. Appropriate engineering controls

Other information Do not eat, drink or smoke during use.

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8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection In case of repeated or prolonged contact wear gloves

Eye protection Chemical goggles or safety glasses

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s)





8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state Liquid Colour Yellow. Odour characteristic. Odour threshold Not available Melting point Not available Freezing point Not available Boiling point Not available Flammability Not available Lower explosion limit Not available Upper explosion limit Not available > 250 °C ISO 2592 Flash point Auto-ignition temperature Not available Decomposition temperature Not available Not available pН pH solution Not available Viscosity, kinematic (calculated value) (40 °C) 80 mm²/s (40 °C) Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure < 0.001 hPa (20 °C) Vapour pressure at 50°C Not available 1.04 g/cm³ Density Not available Relative density Relative vapour density at 20°C Not available Solubility Not available Particle size Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

VOC content 0.06 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

Viscosity, kinematic

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11	1	Information	on toxical	logical effect	9
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Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

Not classified

Acute toxicity (inhalation)	Not classified
diphenyl tolyl phosphate (26444-49-5)	
LD50 oral rat	6400 mg/kg (Rat, Literature study, Oral)
LD50 oral	6400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Literature study, Dermal)
LD50 dermal	5000 mg/kg
ATE UN (oral)	6400 mg/kg bodyweight
ATE UN (dermal)	5000 mg/kg bodyweight
triphenyl phosphate (115-86-6)	
LD50 oral rat	> 20000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	3723.1 mg/kg
LD50 dermal rabbit	> 10000 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Experimental value, Dermal, 14 day(s))
LD50 dermal	10000 mg/kg
ATE UN (oral)	3723.1 mg/kg bodyweight
ATE UN (dermal)	10000 mg/kg bodyweight
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
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80 mm²/s (40 °C)



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Potential adverse human health effects and symptoms

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

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Classification procedure (Hazardous to the aquatic

environment, short-term (acute))

Hazardous to the aquatic environment, long-term

Classification procedure (Hazardous to the aquatic

environment, long-term (chronic))

Harmful to aquatic life.

Expert judgement

Harmful to aquatic life with long lasting effects.

Expert judgement

diphenyl tolyl phosphate (26444-49-5)		
EC50 72h - Algae [1]	0.6 mg/l (Algae)	
EC50 72h - Algae [2]	0.99 mg/l (OECD 201: Alga, Growth Inhibition Test, Selenastrum capricornutum)	
NOEC chronic crustacea	0.12 mg/l	
triphenyl phosphate (115-86-6)		
EC50 - Crustacea [1]	0.25 mg/l	
EC50 96h - Algae [1]	2 mg/l (US EPA, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)	
NOEC chronic fish	0.037 mg/l	

12.2. Persistence and degradability

Kluebersynth GH 6-80 (Hilti)		
Persistence and degradability No additional information available		
diphenyl tolyl phosphate (26444-49-5)		
Persistence and degradability Not readily biodegradable in water.		
ThOD	2.118 g O ₂ /g substance	
triphenyl phosphate (115-86-6)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	

12.3. Bioaccumulative potential

Kluebersynth GH 6-80 (Hilti)		
Bioaccumulative potential	ccumulative potential Not established.	
diphenyl tolyl phosphate (26444-49-5)		
Partition coefficient n-octanol/water (Log Kow)	3.7 (OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
triphenyl phosphate (115-86-6)		
BCF - Fish [1]	144 (Other, 18 day(s), Oryzias latipes, Flow-through system, Fresh water, Experimental value, Fresh weight)	
BCF - Other aquatic organisms [1]	43 (Lemna sp., Literature study, Chronic)	
Partition coefficient n-octanol/water (Log Kow)	4.63 (Experimental value, Equivalent or similar to OECD 107, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

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12.4. Mobility in soil

Kluebersynth GH 6-80 (Hilti)		
Mobility in soil	No additional information available	
diphenyl tolyl phosphate (26444-49-5)		
Ecology - soil	Low potential for adsorption in soil.	
triphenyl phosphate (115-86-6)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.4 – 3.55 (log Koc, Calculated value)	
Ecology - soil	Low potential for mobility in soil.	

12.5. Other adverse effects

Ozone Not classified

Other adverse effects

No additional information available
Other information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations

Dispose in a safe manner in accordance with local/national regulations.

Ecological information Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

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Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

 Issue date
 11/27/2024

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 11/27/2024

 Supersedes
 12/14/2022

Section	Changed item	Change	Comments
1.3	Department issuing data specification sheet	Modified	
2.1	Classification (GHS UN)	Added	
2.2	Hazard statements (GHS UN)	Added	
2.2	Precautionary statements (GHS UN)	Added	
3	Composition/information on ingredients	Modified	
1.4	Emergency number	Modified	

Abbreviations and acronyms

CAS-No. - Chemical Abstract Service number

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate

BCF - Bioconcentration factor

BLV - Biological limit value

BOD - Biochemical oxygen demand (BOD)

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

COD - Chemical oxygen demand (COD)

DMEL - Derived Minimal Effect level

DNEL - Derived-No Effect Level

EC-No. - European Community number

EC50 - Median effective concentration

ED - Endocrine disrupting properties

EN - European Standard

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods

IOELV - Indicative Occupational Exposure Limit Value

LC50 - Median lethal concentration

LD50 - Median lethal dose

LOAEL - Lowest Observed Adverse Effect Level

N.O.S. - Not Otherwise Specified

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Other information

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NOAEC - No-Observed Adverse Effect Concentration

NOAEL - No-Observed Adverse Effect Level

NOEC - No-Observed Effect Concentration

OECD - Organisation for Economic Co-operation and Development

OEL - Occupational Exposure Limit

PBT - Persistent Bioaccumulative Toxic

PNEC - Predicted No-Effect Concentration

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS - Safety Data Sheet

TLM - Median Tolerance Limit

TRGS - Technical Rules for Hazardous Substances

ThOD - Theoretical oxygen demand (ThOD)

VOC - Volatile Organic Compounds

WGK - Water Hazard Class

vPvB - Very Persistent and Very Bioaccumulative

None.

Full text of H-statements:		
Acute Tox. 5 (Dermal)	Acute toxicity (dermal), Category 5	
Acute Tox. 5 (Oral)	Acute toxicity (oral), Category 5	
Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified	
Acute Tox. Not classified (Oral)	Acute toxicity (oral) Not classified	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Flam. Liq. Not classified	Flammable liquids Not classified	
H303	May be harmful if swallowed	
H313	May be harmful in contact with skin	
H400	Very toxic to aquatic life	
H402	Harmful to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	
H411	Toxic to aquatic life with long lasting effects	
H412	Harmful to aquatic life with long lasting effects	

SDS_UN_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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