

Kluebersynth GH 6-80 (Hilti) Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021) Revision date: 27/11/2024 Issue date: 27/11/2024

Supersedes: 14/12/2022

Version: 3.0

1.1. GHS Product identifier			
Product form	Mixture		
Product name	Kluebersynth Gl	H 6-80 (Hilti)	
Product code	BU Diamond		
1.2. Other means of identification			
No additional information available			
1.3. Recommended use of the chemical an	d 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	ation sheet
Hilti (South Africa) (Pty) Ltd.		Hilti AG	
2 Tugela Lane, Waterfall Logistics Precinct		Feldkircherstraße 100	
Corner Bridal Veil Road and R101		FL 9494 Schaan	
ZA 2090 Midrand		Liechtenstein	
South Africa		T +423 234 2111	
T +2711 237300, F +2711 2373111		product.compliance-power.tools@h	ilti.com
Customercare.za@hilti.com			
1.5. Emergency phone number			
Emergency number	Emergency CON	NTACT (24-Hour-Number):	
	GBK GmbH Glo	bal Regulatory Compliance	
	+49 (0)6132-844	463	
	+2711 237300		
SECTION 2: Hazard identification			
2.1. Classification of the substance or mix	ture		
Classification according to the United Nations (
Hazardous to the aquatic environment – Acute Haz		H402	Expert judgement
Hazardous to the aquatic environment – Chronic H	• •	H412	Expert judgement
Full text of H-statements: see section 16	azara, catogory c		Expert judgement
2.2. GHS Label elements, including precau	tionarv statement	S	
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)		ease to the environment.	
2.3. Other hazards which do not result in c	lassification		
No additional information available			

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 me	asures
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, ac	cute and delayed
Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

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-fighte	ers	
Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any 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 Emergency procedures	Equip cleanup crew with proper protection. 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 stora	ge
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, includ	ling 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 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

Eye protection

Respiratory protection

In case of repeated or prolonged contact wear gloves Chemical goggles or safety glasses 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
Flash point	> 250 °C ISO 2592
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
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
Density	1,04 g/cm ³
Relative density	Not available
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.

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 toxicological effects		
Acute toxicity (oral)	Not classified	
Acute toxicity (dermal)	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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Viscosity, kinematic	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)	Harmful to aquatic life.	
Classification procedure (Hazardous to the aquatic environment, short-term (acute))	Expert judgement	
Hazardous to the aquatic environment, long-term (chronic)	Harmful to aquatic life with long lasting effects.	
Classification procedure (Hazardous to the aquatic environment, long-term (chronic))	Expert judgement	
diphenyl tolyl phosphate (26444-49-5)		
EC50 72h - Algae [1]	0,6 mg/l (Algae)	
EC50 72h - Algae [2]	0,99 mg/I (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		
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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		
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Bioaccumulative 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)		
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 offects	No additional information available	

Other adverse effects Other information Not classified No additional information available Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations Ecological information Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	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(e	5)		
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

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	2024/11/27
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Supersedes	2022/12/14

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



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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.			

Other information

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.