

Kluebersynth GH 6-80 (Hilti)

Safety Data Sheet

According to ICOP 2014

Issue date: 27/11/2024

Revision date: 27/11/2024

Supersedes: 23/09/2022

Version: 3.0

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1. Product identifier

Name Kluebersynth GH 6-80 (Hilti)

1.2. Other means of identification

Product code BU Diamond

1.3. Recommended use of the chemical and restrictions on use

Recommended use Lubricant

Restrictions on use For professional use only

1.4. Supplier details

Supplier

Hilti (Malaysia) Sdn. Bhd.
F-5-A, Sime Darby Brunfield Tower, No. 2, Jalan PJU 1A/7A
Oasis Square, Oasis Damansara
47301 Petaling Jaya, Selangor
Malaysia
T +60 3 5628 7222
1800 880 985 toll free - F +60 3 7848 7399

Department issuing data specification sheet

Hilti AG
Feldkircherstraße 100
9494 Schaan
Liechtenstein
T +423 234 2111
product.compliance-power.tools@hilti.com

1.5. Emergency phone number

Emergency number GBK GmbH Global Regulatory Compliance
+49 (0)6132-84463

Country	Organisation/Company	Address	Emergency number	Comment
Malaysia	Malaysia National Poison Centre (NPC) Universiti Sains Malaysia	11800 Penang	+60 (0)4 6536 999 (Mon-Fri 8am-10pm; Sat, Sun & Public Holiday 8am-5pm)	

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

2.2. Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Signal word (GHS MY) -

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

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

2.3. Other hazards that do not result in classification

No additional information available

SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%
diphenyl tolyl phosphate	CAS-No.: 26444-49-5	< 2.5
triphenyl phosphate	CAS-No.: 115-86-6	< 2.5
Bis(methylphenyl) phenyl phosphate	CAS-No.: 26446-73-1	< 2.5

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

Other medical advice or treatment	No additional information available.
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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.

5.2. Physicochemical 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 equipment and precautions for fire fighters

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

6.1.1. For non-emergency personnel

Emergency procedures	Evacuate unnecessary personnel.
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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.

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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.
Methods and Equipment for Containment and 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 and personal protection

8.1. Control parameters

triphenyl phosphate (115-86-6)	
Malaysia - Occupational Exposure Limits	
Local name	Trifenil fosfat # Triphenyl phosphate
PEL (OEL TWA)	3 mg/m ³
MEL (mg/m ³)	9 mg/m ³

Exposure limit values for the other components

No additional information available

8.1.1 Biological monitoring

Monitoring methods	A specific exposure sampling method is not available.
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8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures, such as PPE

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

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Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

Physical state	Liquid
Appearance	No data available
Colour	Yellow
Odour	characteristic
Odour threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	> 250 °C ISO 2592
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data available
Vapour pressure	Vapour pressure: < 0.001 hPa (20 °C)
Relative vapour density at 20°C	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Partition coefficient n-octanol/water (Log Kow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	80 mm ² /s (40 °C)
Viscosity, dynamic	No data available
Density	1.04 g/cm ³
VOC content	0.06 %

SECTION 10: Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use
Conditions to avoid	Direct sunlight, Extremely high or low temperatures
Incompatible materials	Strong acids, Strong bases
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

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diphenyl tolyl phosphate (26444-49-5)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Literature study, Dermal)
LD50 dermal	5000 mg/kg
ATE MY (oral)	6400 mg/kg bodyweight
ATE MY (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 MY (oral)	3723.1 mg/kg bodyweight
ATE MY (Dermal)	10000 mg/kg bodyweight
Skin corrosion or irritation	Not classified
Serious eye damage or eye irritation	Not classified
Respiratory sensitization	Not classified
Skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (STOT) – single exposure	Not classified
Specific target organ toxicity (STOT) – repeated exposure	Not classified
Aspiration hazard	Not classified
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Viscosity, kinematic	80 mm ² /s (40 °C)
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Harmful to aquatic life with long lasting effects.
Other information	Avoid release to the environment.

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
Partition coefficient n-octanol/water (Log Pow)	3.7 (OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
triphenyl phosphate (115-86-6)	
EC50 - Crustacea [1]	0.25 mg/l
NOEC chronic fish	0.037 mg/l

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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 Pow)	4.63 (Experimental value, Equivalent or similar to OECD 107, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.4 – 3.55 (log Koc, Calculated value)

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

Kluebersynth GH 6-80 (Hilti)	
Bioaccumulative potential	Not established.
diphenyl tolyl phosphate (26444-49-5)	
Partition coefficient n-octanol/water (Log Pow)	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 Pow)	4.63 (Experimental value, Equivalent or similar to OECD 107, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.4 – 3.55 (log Koc, Calculated value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

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Mobility in soil	No additional information available
diphenyl tolyl phosphate (26444-49-5)	
Partition coefficient n-octanol/water (Log Pow)	3.7 (OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Ecology - soil	Low potential for adsorption in soil.
triphenyl phosphate (115-86-6)	
Partition coefficient n-octanol/water (Log Pow)	4.63 (Experimental value, Equivalent or similar to OECD 107, 20 °C)
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
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Other adverse effects

No additional information available

SECTION 13: Disposal information

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: Transportation 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

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 hazardous chemical in question

Regulation	Component/ Mixture
EHS Notification and Registration Scheme	Not applicable
EHS Notification and Registration Scheme	Kluebersynth GH 6-80 (Hilti)

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Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993		Kluebersynth GH 6-80 (Hilti)
Environmental Quality (Industrial Effluent) Regulations 2009		Kluebersynth GH 6-80 (Hilti)
Environmental Quality (Scheduled Wastes) Regulations 2007		Kluebersynth GH 6-80 (Hilti)
Control of Industrial Major Accident Hazards Regulations 1996		Kluebersynth GH 6-80 (Hilti)
Prohibition of Use of Substance Order 1999		Kluebersynth GH 6-80 (Hilti)
Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000		Kluebersynth GH 6-80 (Hilti)
Chemical Weapons Convention Act		Kluebersynth GH 6-80 (Hilti)
Corrosive and Explosive Substances and Offensive Weapons Act		Kluebersynth GH 6-80 (Hilti)
Dangerous Drugs Act		Kluebersynth GH 6-80 (Hilti)
Pesticides Act		Kluebersynth GH 6-80 (Hilti)
Petroleum (Safety Measures) Act		Kluebersynth GH 6-80 (Hilti)
Poisons Act 1952		Kluebersynth GH 6-80 (Hilti)
Poisons (Psychotropic Substances) Regulations 1989		Kluebersynth GH 6-80 (Hilti)

15.2. International agreements

No additional information available

SECTION 16: Other information

Version	3.0
Issue date	27/11/2024
Revision date	27/11/2024
Supersedes	23/09/2022

Indication of changes			
Section	Changed item	Change	Comments
1	Department issuing data specification sheet	Modified	
1	Emergency number	Modified	
2.1	Classification (GHS MY)	Added	
2.2	Hazard statements (GHS MY)	Added	
2.2	Precautionary statements (GHS MY)	Added	
3.2	Composition/information on ingredients	Modified	

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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
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	
H412	Harmful to aquatic life with long lasting effects

SDS_MY_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.