

Safety Data Sheet

SECTION 1: Identification

1.1. Identification

Product form Mixture

Product name Kluebersynth GH 6-80 (Hilti)

Product code BU Diamond

1.2. Recommended use and restrictions on use

Use of the substance/mixture Lubricant

Recommended use For professional use only

1.3. Supplier

Supplier Department issuing data specification sheet

Hilti, Inc.

Legacy Tower, Suite 1000
7250 Dallas Parkway
US TX 75024 Plano
USA
Feldkircherstraße 100
FL 9494 Schaan
Liechtenstein
T +423 234 2111

T +1 9724035800 product.compliance-power.tools@hilti.com

us-sales@hilti.com

1.4. Emergency telephone number

1-800-879-8000 toll free, F +1 918 254 0522

Emergency number Emergency CONTACT (24-Hour-Number)

GBK/Infotrac ID 101022 (USA domestic) 1 800 535 5053

(USA domestic) 1 800 535 5053 or international (001) 352 323 3500

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labelling

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	GHS-US classification
diphenyl tolyl phosphate	CAS-No.: 26444-49-5	-	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
triphenyl phosphate	CAS-No.: 115-86-6		Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of 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 and effects (acute and delayed)

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

symptoms

based on available data, the classification chiefla are not met.

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

4.3. Immediate medical attention and special treatment, if necessary

No additional information available.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) 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. 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 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.

6.3. Methods and material 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.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

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

Kluebersynth GH 6-80 (Hilti)

No additional information available

diphenyl tolyl phosphate (26444-49-5)

No additional information available

Local name

triphenyl phosphate (115-86-6)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	3 mg/m³
Remark (ACGIH)	TLV® Basis: Cholinesterase inhib. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024

Triphenyl phosphate

USA - OSHA - Occupational Exposure Limits

Local name	Triphenyl phosphate	
OSHA PEL TWA	3 mg/m³	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	

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

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

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):





Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid Colour Yellow Odour characteristic Odour threshold No data available No data available Melting point No data available Freezing point No data available Boiling point No data available > 250 °C ISO 2592 Flash point Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) No data available Vapour pressure < 0.001 hPa (20 °C) Relative vapour density at 20°C No data available Relative density No data available Density 1.04 g/cm³ Solubility No data available Partition coefficient n-octanol/water (Log Pow) No data available No data available Auto-ignition temperature Decomposition temperature No data available Viscosity, kinematic 80 mm²/s (40 °C) Viscosity, dynamic No data available

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Explosive limits

No data available
Explosive properties

No data available
Oxidising properties

No data available

9.2. Other information

VOC content 0.06 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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.

LD50 dermal rabbit

LD50 dermal

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)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

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 US (oral)	6400 mg/kg bodyweight		
ATE US (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		

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Dermal, 14 day(s))

10000 mg/kg

> 10000 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Experimental value,



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triphenyl phosphate (115-86-6)		
ATE US (oral)	3723.1 mg/kg bodyweight	
ATE US (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	
Viscosity, kinematic	80 mm²/s (40 °C)	
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.	
Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.	

SECTION 12: Ecological information

12.1. Toxicity

diphenyl tolyl phosphate (26444-49-5)			
EC50 72h - Algae [1]	0.6 mg/l (Algae)		
EC50 72h - Algae [2]	[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

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)			
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)			

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diphenyl tolyl phosphate (26444-49-5)			
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)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		

12.4. Mobility in soil

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

Other information

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

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA		
14.1. UN number	14.1. UN number				
Not applicable	Not applicable	Not regulated	Not regulated		
14.2. Proper Shipping Name					
Not applicable	Not applicable	Not regulated	Not regulated		
14.3. Transport hazard class(es)					
Not applicable	Not applicable	Not regulated	Not regulated		
14.4. Packing group					
Not applicable	Not applicable	Not regulated	Not regulated		
14.5. Environmental hazards					
Not applicable	Not applicable	Not regulated	Not regulated		

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DOT	TDG	IMDG	IATA		
No supplementary information available					

14.6. Special precautions for user

DOT

Not applicable

TDG

Not applicable

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

triphenyl phosphate CAS-No. 115-86-6 < 2.5%

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Revision date 11/27/2024 Other information None.

Full text of H-statements	
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms	
CAS-No.	Chemical Abstract Service number

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Abbreviations and acronyms			
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		

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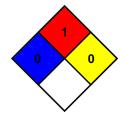
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Abbreviations and acronyms		
TRGS	Technical Rules for Hazardous Substances	
ThOD	Theoretical oxygen demand (ThOD)	
VOC	Volatile Organic Compounds	
WGK	Water Hazard Class	
vPvB	Very Persistent and Very Bioaccumulative	

NFPA health hazard

NFPA fire hazard NFPA reactivity

- 0 Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
- 1 Materials that must be preheated before ignition can occur.
- 0 Material that in themselves are normally stable, even under fire conditions.



Indication of changes:					
Section	Changed item	Change	Comments		
1	Department issuing data specification sheet	Modified			
1	Emergency number	Modified			
3	Composition/information on ingredients	Modified			

SDS_US_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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