



Cluebersynth GH 6-80 (Hilti)

依据标准 : GB/T 16483, GB/T 17519-2013

Version:1.0

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Date of issue:2019/03/19

Supersedes:

SECTION 1 Chemical product and company identification

Product identifier

Product form	Mixture
Product name	Cluebersynth GH 6-80 (Hilti)
Product code	BU Diamond
Chemical name	

Details of the supplier of the safety data sheet

Supplier	Department issuing data specification sheet
Hilti (China) Ltd.	Hilti Entwicklungsgesellschaft mbH
8F, Tower 2, No.58 Yao Yuan Rd.	Hiltistraße 6
Pudong District	86916 Kaufering - Deutschland
200120 Shanghai - China	T +49 8191 906876
T +86 21 6016 7316	anchor.hse@hilti.com
cncs@hilti.com	

Emergency telephone number

Emergency number	Schweizerisches Toxikologisches Informationszentrum - 24h Service +41 44 251 51 51 (international) +86 21 6016 7320 800-820-2585 (Toll Free)
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Country	Organisation/Company	Address	Emergency number
China	chemical accident emergency consultation service hotline (24/7)		400-6267-911

SECTION 2: Hazards identification

Emergency overview

Liquid. Yellow. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Use personal protective equipment as required. Equip cleanup crew with proper protection

GHS classification

Environmental hazards	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Other hazards not mentioned above are Not applicable or No data is available.	

GHS CN labelling

Hazard statements (GHS CN)	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (GHS CN)	P273 - Avoid release to the environment, P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional,

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national and/or international regulation

Additional information

SECTION 3: Composition/information on ingredients

Product form

Mixture

Name	CAS-No.	Concentration (%)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	1 - 2.5
diphenyl tolyl phosphate	26444-49-5	0.25 - 1
triphenyl phosphate	115-86-6	0.25 - 1
Bis(methylphenyl) phenyl phosphate	26446-73-1	0.25 - 1
tris(methylphenyl)phosphate	1330-78-5	0.1 - 0.25

SECTION 4: First aid measures

Emergency

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	Assure fresh air breathing. 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.

Most Important Symptoms/Effects

Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
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Personal Protection in First Aid and Measures

Not applicable.

Notes for the doctor

Other medical advice or treatment	No additional information available
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SECTION 5 Fire fighting measures

Extinguishing media

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.

Special hazard

Hazardous decomposition products in case of fire	Carbon dioxide Carbon monoxide Nitrogen oxides
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Advice for firefighters and protective measures

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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures	Evacuate unnecessary personnel.
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For emergency responders

Protective equipment	Equip cleanup crew with proper protection.
Emergency procedures	Ventilate area.

Environmental precautions

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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Methods and Equipment for Containment and Cleaning up

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.
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Prevention Measures for Secondary Accidents

Prevention Measures for Secondary Accidents	No additional information available
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SECTION 7 Handling and storage

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.

Storage

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 equipment

Occupational Exposure Limits

No additional information available

Biological limit values

No additional information available

Monitoring methods

Monitoring methods

A specific exposure sampling method is not available

Personal protective equipment

Personal protective equipment

Avoid all unnecessary exposure

Other information

Do not eat, drink or smoke during use

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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SECTION 9 Physical and chemical properties

Physical state	Liquid
Appearance	No data available
Colour	Yellow
Odour	characteristic
Odour threshold (ppm)	No data available
Odour threshold (mg/m ³)	No data available
pH	No data available
pH solution	No data available
Relative evaporation rate (butylacetate=1)	No data available
Relative evaporation rate (ether=1)	No data available
Evaporation rate	No data available
Other properties	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	> 250 ° C ISO 2592
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable.
Critical temperature	No data available
Vapour pressure	< 0.001 hPa (20 ° C)
Vapour pressure at 50 ° C	No data available
Critical pressure	No data available
Relative vapour density at 20 ° C	No data available
Relative density	No data available
Relative density of saturated gas/air mixture	No data available
Density	1.04 g/cm ³
Relative gas density	No data available
Solubility	No data available
Solubility in water	No data available
Solubility in ethanol	No data available
Solubility in ether	No data available
Solubility in acetone	No data available
Solubility in organic solvents	No data available
Log Pow	No data available
Log Kow	No data available
Viscosity, kinematic	80 mm ² /s (40 ° C)
Explosive limits (g/m ³)	No data available
Explosive limits (vol %)	No data available
Lower explosive limit (LEL)	No data available

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Upper explosive limit (UEL)	No data available
Radioactive	No
VOC content	0.19 %

SECTION 10: Stability and reactivity

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

Acute toxicity

Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (inhalation)	No data available

diphenyl tolyl phosphate	
LD50 oral rat	6400 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Literature study, Dermal)
ATE CN (oral)	6400 mg/kg bodyweight
triphenyl phosphate	
LD50 oral rat	> 20000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 10000 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Experimental value, Dermal, 14 day(s))

Skin corrosion/irritation

Skin corrosion/irritation	No data available
pH	

Serious eye damage/irritation

Serious eye damage/irritation	Not classified
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Respiratory or skin sensitisation

Respiratory or skin sensitisation	No data available
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Germ cell mutagenicity

Germ cell mutagenicity No data available

Carcinogenicity

Carcinogenicity No data available

Reproductive toxicity

Reproductive toxicity No data available

STOT-single exposure

STOT-single exposure No data available

STOT-repeated exposure

STOT-repeated exposure No data available

Aspiration hazard

Aspiration hazard No data available

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Human evidence for classification	No
Not able to form a pool	No
Hydrocarbon	No
Aliphatic, alicyclic or aromatic hydrocarbon	No
Polycyclic-aromatic hydrocarbons	No
Viscosity, kinematic (calculated value) (40 °C)	80 mm ² /s (40 °C)
Viscosity, kinematic	80 mm ² /s (40 °C)
Density	1.04 g/cm ³

SECTION 12: Ecological information

Toxicity

Ecology - water Harmful to aquatic life with long lasting effects.
Acute aquatic toxicity No data available
Chronic aquatic toxicity Harmful to aquatic life with long lasting effects.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

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LC50 fish 1	> 100 mg/l
EC50 Daphnia 1	> 100 mg/l

diphenyl tolyl phosphate	
LC50 fish 1	1.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes)
EC50 Daphnia 1	1 mg/l (48 h, Daphnia magna)
EC50 Daphnia 2	3.7 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna)

triphenyl phosphate	
LC50 fish 1	0.4 mg/l (EPA 660/3 - 75/009, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)
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)

Persistence and degradability

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Not rapidly degradable	No
Persistence and degradability	May cause long-term adverse effects in the environment

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	
Not rapidly degradable	No

diphenyl tolyl phosphate	
Not rapidly degradable	No
Persistence and degradability	Not readily biodegradable in water
ThOD	2.118 g O ₂ /g substance

triphenyl phosphate	
Not rapidly degradable	No
Persistence and degradability	Biodegradable in the soil Readily biodegradable in water

Bis(methylphenyl) phenyl phosphate	
Not rapidly degradable	No

tris(methylphenyl)phosphate	
Not rapidly degradable	No

Bioaccumulative potential

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Bioaccumulative potential	Not established

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	
Bioconcentration factor (BCF REACH)	411

diphenyl tolyl phosphate	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4)

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Log Pow	3.7 (OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 ° C)
triphenyl phosphate	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500)
BCF fish 1	See section 12.1 on ecotoxicology
BCF other aquatic organisms 1	See section 12.1 on ecotoxicology
Log Pow	4.63 (Experimental value, Equivalent or similar to OECD 107, 20 ° C)
Log Koc	3.4 – 3.55 (log Koc, Calculated value)

Mobility in soil

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Ecology - soil	Not established

diphenyl tolyl phosphate	
Ecology - soil	Low potential for bioaccumulation (Log Kow < 4)
Log Pow	3.7 (OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 ° C)

triphenyl phosphate	
Ecology - soil	Low potential for bioaccumulation (BCF < 500)
Log Pow	4.63 (Experimental value, Equivalent or similar to OECD 107, 20 ° C)
Log Koc	3.4 - 3.55 (log Koc, Calculated value)

Other adverse effects

Classification procedure	No data available
(Ozone)	
Other information	Avoid release to the environment.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	No additional information available
<p> PBT </p> <p> vPvB </p>	<p> No additional information available </p>

SECTION 13: Disposal considerations

Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations
Ecology - waste materials	Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	RID
14.1. UN number			
Not regulated	Not regulated	Not regulated	Not regulated

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ADR	IMDG	IATA	RID
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			

Special precautions for user

- Overland transport

- Transport by sea

No data available

- Air transport

No data available

- Rail transport

Carriage prohibited (RID) No

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

SECTION 15: Regulatory information

Dangerous Goods List (GB 12268-2012)	GB12268-2012
Regulation on the Safety Management of Hazardous Chemicals	2574, TRICRESYL PHOSPHATE with more than 3% ortho isomer Catalogue of Hazardous Chemicals (2015)
Rules for dangerous goods transport by railway	1271, Tri(methylphenyl)phosphate(structureunspecified)
Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used	List of dangerous goods by railway (2009)
Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals	61112
	Not listed
	Not listed



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Regulation of the People's Republic of China on the Administration of the Import and Export of Goods	Not listed
Regulation on the Control of Precursor Chemicals	Not listed
Measures for the Administration of Pharmaceutical Precursor Chemicals	Not listed
Regulations on the Control of Agricultural Chemicals; Notice of Pesticide Transport	Not listed
Regulation on the Management of Controlled Chemicals	Not listed

SECTION 16 Other information

Compiled according to GB/T 16483, GB/T 17519

SDS_CN_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.