

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 06/12/2022 Revision date: 06/12/2022 Supersedes version of: 03/12/2019

Version: 3.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

Mixture

### 1.1. Product identifier

Product form

Product name Universal cutting oil

Product code BU ET&A



## 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec Industrial

For professional use only

Use of the substance/mixture Lubricant

Coolant

Function or use category Lubricants and additives

#### 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data sheet

# Supplier

Hilti (Schweiz) AG

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Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH

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## 1.4. Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

## Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable



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#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethyl 3-[[bis(1-methylethoxy)phosphinothioyl]thio]propionate	CAS-No.: 71735-74-5 EC-No.: 275-965-6 REACH-no: 01-2119976328- 24	1 – 5	Aquatic Chronic 2, H411

Full text of H- and EUH-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, both acute and delayed

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

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

## 5.1. 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. Special hazards arising from the substance or mixture

No additional information available

## 5.3. Advice for firefighters

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.



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## **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.

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.

### 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 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.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep only in the original container in a cool, well ventilated place away from : Direct

sunlight, Heat sources.

Incompatible products Strong bases. Strong acids.
Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature -15 – 40 °C

## 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1. National occupational exposure and biological limit values

No additional information available

## 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

## 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

No additional information available



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#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

### Personal protective equipment symbol(s):







#### 8.2.2.1. Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

### 8.2.2.2. Skin protection

## Skin and body protection:

Wear suitable protective clothing

## Hand protection:

In case of repeated or prolonged contact wear gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)		0,3		EN ISO 374

#### 8.2.2.3. Respiratory protection

### Respiratory protection:

Wear appropriate mask

## 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

## Other information:

Do not eat, drink or smoke during use. No additional information available

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state Liquid
Colour Yellow.
Appearance Liquid.
Odour Pleasant odour.
Odour threshold Not available
Melting point Not available
Freezing point Not available

Boiling point > 300 °C DIN 51751 / ASTM D86

Flammability Non flammable.



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Explosive limits Not available
Lower explosion limit Not available
Upper explosion limit Not available

Flash point 210 °C ISO 2592 / ASTM D92

Auto-ignition temperature Not available
Decomposition temperature Not available
pH Not available

Viscosity, kinematic 15 mm²/s (40 °C) ISO 3104 / ASTM D445

Solubility insoluble in water.

Partition coefficient n-octanol/water (Log Kow)

Vapour pressure

Vapour pressure at 50°C

Not available

Not available

Density 0.9 g/cm³ DIN 51757 / ASTM D1217

Relative density

Relative vapour density at 20°C

Not available

Particle characteristics

Not applicable

#### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

No additional information available

## 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

## 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

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

Not classified

Universal cutting oil		
LD50 oral rat	2000 – 5000 mg/kg	
LC50 Inhalation - Rat (Dust/Mist)	5.1 mg/l/4h	



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ethyl 3-[[bis(1-methylethoxy)phosphinothioyl]thio]propionate (71735-74-5)		
LD50 dermal rat	> 2000 mg/kg	
Skin corrosion/irritation	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Serious eye damage/irritation	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Respiratory or skin sensitisation	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Germ cell mutagenicity	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Carcinogenicity	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Reproductive toxicity	Not classified	
Additional information	Based on available data, the classification criteria are not met	
STOT-single exposure	Not classified	
Additional information	Based on available data, the classification criteria are not met	
STOT-repeated exposure	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Aspiration hazard	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Universal cutting oil		
Viscosity, kinematic	15 mm <sup>2</sup> /s (40 °C) ISO 3104 / ASTM D445	

## 11.2. Information on other hazards

## 11.2.1. Endocrine disrupting properties

## 11.2.2. Other information

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

Not classified

(acute)

Hazardous to the aquatic environment, long-term

Not classified

(chronic)

ethyl 3-[[bis(1-methylethoxy)phosphinothioyl]thio]propionate (71735-74-5)		
LC50 - Fish [1]	38 mg/l	
LC50 - Other aquatic organisms [1]	> 100 mg/l	
EC50 - Crustacea [1]	12.6 mg/l	
LOEC (acute)	54 mg/l	
NOEC (acute)	27 mg/l	

## 12.2. Persistence and degradability

Universal cutting oil	
Persistence and degradability	Not established.



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ethyl 3-[[bis(1-methylethoxy)phosphinothioyl]thio]propionate (71735-74-5)		
Biodegradation 94.4 % at 20 mg/L biodegradation was 94.4% in 28 days		

## 12.3. Bioaccumulative potential

Universal cutting oil		
Bioaccumulative potential Not established.		
ethyl 3-[[bis(1-methylethoxy)phosphinothioyl]thio]propionate (71735-74-5)		
Bioconcentration factor (BCF REACH) 15.26		
Partition coefficient n-octanol/water (Log Pow)	4	

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

### Universal cutting oil

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

## 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product/Packaging disposal recommendations

Ecology - waste materials

European List of Waste (LoW) code

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

Avoid release to the environment. 12 01 10\* - synthetic machining oils

12 01 19\* - readily biodegradable machining oil

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No



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ADR	IMDG	IATA	RID
No supplementary information available			

## 14.6. Special precautions for user

#### **Overland transport**

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Rail transport

No data available

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## 15.1.1. EU-Regulations

## **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

## **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

## Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

## Switzerland

Storage class (LK) LK 10/12 - Liquids

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out



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## **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
	SDS EU format according to COMMISSION REGULATION (EU) 2020/878		

Data sources REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and

amending Regulation (EC) No 1907/2006.

Other information None.

Full text of H- and EUH-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
H411	Toxic to aquatic life with long lasting effects.

SDS\_EU\_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.