

## Safety Data Sheet

According to ICOP 2014

Issue date: 12/11/2024 Revision date: 12/11/2024 Supersedes: 15/11/2022 Version: 7.3

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

#### 1.1. Product identifier

Name CFS-S SIL / CP 601S



### 1.2. Other means of identification

Product code BU Fire Protection

## 1.3. Recommended use of the chemical and restrictions on use

Recommended use Adhesives, sealants

## 1.4. Supplier details

#### Supplier

Hilti (Malaysia) Sdn. Bhd.

F-5-A, Sime Darby Brunsfield 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-fire.protection@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)	11800 Penang	+60 (0)4 6536 999 (Mon-Fri 8am-10pm;	
	Universiti Sains Malaysia		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)

Not classified

### 2.2. Label elements

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

No labelling applicable

## 2.3. Other hazards that do not result in classification

Other hazards which do not result in classification

Product hydrolyses under formation of methanol (CAS no. 67-56-1). Methanol is toxic by inhalation, in contact with skin and if swallowed. Methanol causes damage to organs. Methanol is highly flammable,

## 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	%
diisobutoxy-bisethylacetoacetatotitanate	CAS-No.: 83877-91-2	< 2

## **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 Get medical advice/attention if you feel unwell. 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. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

First-aid measures after ingestion Drink plenty of water. Do NOT induce vomiting. Get immediate medical advice/attention.

Rinse mouth. 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.

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

Other medical advice or treatment

Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure. Further toxicology information in section 11 must be observed.

## **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. dry chemical powder, alcohol-resistant foam, carbon dioxide

(CO2). Sand. Foam. Dry powder. Do not use a heavy water stream.

Unsuitable extinguishing media Do not use a heavy water stream

### 5.2. Physicochemical hazards arising from the chemical

Reactivity in case of fire Formation of toxic gases is possible during heating or in case of fire. Decomposition

products may be a hazard to health.

Hazardous decomposition products in case of fire Carbon dioxide. Carbon monoxide.

## 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 Self-contained breathing apparatus. Complete protective clothing. 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

Protective equipment Wear recommended personal protective equipment.

Emergency procedures Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Do not

touch or walk on the spilled product. Evacuate unnecessary personnel.

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#### 6.1.2. For emergency responders

Protective equipment For further information refer to section 8: "Exposure controls/personal protection". Equip

cleanup crew with proper protection.

Emergency procedures Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and materials for containment and cleaning up

For containment Absorb spilled material with sand or earth. Collect spillage.

Methods for cleaning up Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Clean contaminated surfaces with an excess of water. On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling Wear personal protective equipment. 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 Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

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

Storage conditions Keep cool. Store in a dry place. Keep only in the original container in a cool, well ventilated

place away from : Keep container closed when not in use.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5-25 °C

## **SECTION 8: Exposure controls and personal protection**

## 8.1. Control parameters

No additional information available

### Exposure limit values for the other components

Additional information The product has a pasty consistency. Exposure limit values for respirable dusts are not

relevant for this product.

### 8.1.1 Biological monitoring

No additional information available

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures, such as PPE

## Hand protection:

Protective gloves. ISO 374-1. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration. Wear protective gloves.

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Butyl rubber	6 (> 480 minutes)	>0.3		EN ISO 374
	Nitrile rubber (NBR)	1 (> 10 minutes)	>0.4		EN ISO 374

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Eye protection:				
Chemical goggles or safety glasses	Chemical goggles or safety glasses			
Туре	Field of application	Characteristics	Standard	
Safety glasses			EN 166, EN 170	

Skin and body	protection:
Wear suitable p	protective clothing

### Respiratory protection:

No respiratory protection needed under normal use conditions. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear appropriate mask

Device	Filter type	Condition	Standard
Full face mask	ABEK		EN 136

### Personal protective equipment symbol(s):







Environmental exposure controls

Avoid release to the environment.

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

Physical state Liquid Appearance Pasty.

Colour Various colours

Odour slight

Odour threshold Not determined pH Not applicable

Melting point No data available Freezing point No data available Boiling point No data available Flash point Pasty; Not relevant Evaporation rate No data available No data available Flammability (solid, gas) No data available Explosive limits No data available Vapour pressure Relative vapour density at 20°C No data available

Relative density

Solubility

Partition coefficient n-octanol/water (Log Pow)

Partition coefficient n-octanol/water (Log Kow)

Auto-ignition temperature

Decomposition temperature

Viscosity, kinematic

No data available

No data available

> 400 °C (DIN 51794)

> 300 °C (Lit)

No data available

Viscosity, dynamic > 1000000 mPa⋅s (Brookfield)

Density 1.5 – 1.54 g/cm³ 23°C, 1013hPa (ISO 1183-1 A)

Molecular mass Not determined

Additional information Explosion limits for released methanol: 5.5 - 44%(V)

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## SECTION 10: Stability and reactivity

Reactivity The product is non-reactive under normal conditions of use, storage and transport

Chemical stability Stable under normal conditions, Not established

Possibility of hazardous reactions No dangerous reactions known under normal conditions of use, Not established Conditions to avoid

None under recommended storage and handling conditions (see section 7), Direct

sunlight, Extremely high or low temperatures

Incompatible materials Reacts with: water, basic substances and acids . Reaction causes the formation of:

methanol

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not

be produced,fume,Carbon monoxide,Carbon dioxide,

# **SECTION 11: Toxicological information**

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Acute toxicity (oral) Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified

#### CFS-S SIL / CP 601S

LD50 oral rat > 2000 mg/kg

### diisobutoxy-bisethylacetoacetatotitanate (83877-91-2)

LD50 oral rat > 5000 mg/kg bodyweight (Rat, Oral)

Skin corrosion or irritation Not classified

pH: ≈ Not applicable

Serious eye damage or eye irritation Not classified Not classified Respiratory sensitization Skin sensitization Not classified Germ cell mutagenicity Not classified

Not classified Carcinogenicity Reproductive toxicity Not classified

Specific target organ toxicity (STOT) - single Not classified

exposure

## diisobutoxy-bisethylacetoacetatotitanate (83877-91-2)

Specific target organ toxicity (STOT) - single May cause drowsiness or dizziness. May cause respiratory irritation. exposure

Specific target organ toxicity (STOT) - repeated

exposure

Not classified

Aspiration hazard Not classified

Potential adverse human health effects and

symptoms

Based on available data, the classification criteria are not met.

Hydrolysis product / impurity: Methanol (CAS 67-56-1) is readily and rapidly absorbed at all Other information

exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

# **SECTION 12: Ecological information**

## 12.1. Ecotoxicity

Ecology - general The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Not classified

Hazardous to the aquatic environment, short-term

(acute)

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Hazardous to the aquatic environment, long-term

Not classified

(chronic)

Other information Avoid release to the environment.

diisobutoxy-bisethylacetoacetatotitanate (83877-91-2)		
	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Reaction product)	

## 12.2. Persistence and degradability

CFS-S SIL / CP 601S			
	Polymer component. biologically not degradable. Elimination by adsorption to activated sludge. The product of hydrolysis (methanol) is readily biodegradable.		
diisobutoxy-bisethylacetoacetatotitanate (83877-91-2)			
Persistence and degradability	Biodegradability: not applicable.		

## 12.3. Bioaccumulative potential

CFS-S SIL / CP 601S				
Bioaccumulative potential Polymer component. No bioaccumulation expected.				
diisobutoxy-bisethylacetoacetatotitanate (83877-91-2)				
diisobutoxy-bisethylacetoacetatotitanate (83877-91	-2)			

## 12.4. Mobility in soil

CFS-S SIL / CP 601S				
Mobility in soil No additional information available				
diisobutoxy-bisethylacetoacetatotitanate (83877-91-2)				
Ecology - soil No (test)data on mobility of the substance available.				

## 12.5. Other adverse effects

Ozone Not classified

Other adverse effects No additional information available

## **SECTION 13: Disposal information**

### 13.1. Disposal methods

Waste treatment methods Product/Packaging disposal recommendations Ecological information Dispose of contents/container in accordance with licensed collector's sorting instructions.

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	14.1. UN number or ID number					
Not applicable Not applicable Not applicable Not						
14.2. UN proper shipping name	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			

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ADR	IMDG	IATA	RID	
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	
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 specific for the hazardous chemical in question

Regulation		Component/ Mixture
EHS Notification and Registration Scheme		
Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993	Not applicable	CFS-S SIL / CP 601S
Environmental Quality (Industrial Efflluent) Regulations 2009		CFS-S SIL / CP 601S
Environmental Quality (Scheduled Wastes) Regulations 2007		CFS-S SIL / CP 601S
Control of Industrial Major Accident Hazards Regulations 1996		CFS-S SIL / CP 601S
Prohibition of Use of Substance Order 1999		CFS-S SIL / CP 601S
Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000		CFS-S SIL / CP 601S
Chemical Weapons Convention Act		CFS-S SIL / CP 601S
Corrosive and Explosive Substances and Offensive Weapons Act		CFS-S SIL / CP 601S
Dangerous Drugs Act		CFS-S SIL / CP 601S
Pesticides Act		CFS-S SIL / CP 601S
Petroleum (Safety Measures) Act		CFS-S SIL / CP 601S

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Poisons Act 1952	CFS-S SIL / CP 601S
Poisons (Psychotropic Substances) Regulations 1989	CFS-S SIL / CP 601S

## 15.2. International agreements

No additional information available

# **SECTION 16: Other information**

 Version
 7.3

 Issue date
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 15/11/2022

Indication of changes					
Section	Changed item	Change	Comments		
			general update		

Other information None.

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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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